				С	STATE DEPARTMENT OF N DIVISION OF OIL	NATURA	L RESOURCES			AMEND	FOF	RM 3	
		, ,	APPLICATION FOR	PERMIT	TO DRILL				1. WELL NAME and N	JMBER Allison 4	-19C5		
2. TYPE C	F WORK	DRILL NEW WEL	L (REENTER P8	A WELL	DEEPEN WELL	_			3. FIELD OR WILDCA	r ALTAM	ONT		
4. TYPE O	F WELL		e Well: NO				5. UNIT or COMMUNI	TIZATION	AGREEME	ENT NAM	E		
6. NAME	OF OPERATOR						7. OPERATOR PHONE	713 997	-5038				
8. ADDRE	SS OF OPERAT	TOR	1001 Louisiana, Ho						9. OPERATOR E-MAIL			om	
	TYPE OF WORK DRILL NEW WELL Oil Well Co. NAME OF OPERATOR EPENERGY E ADDRESS OF OPERATOR 1001 Louisiana. D. MINERAL LEASE NUMBER EDERAL, INDIAN, OR STATE) Fee S. NAME OF SURFACE OWNER (if box 12 = 'fee') S. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 3867 Village C. INDIAN ALLOTTEE OR TRIBE NAME DO LOCATION OF WELL OCATION AT SURFACE Top of Uppermost Producing Zone At Total Depth C. COUNTY DUCHESNE Cond 20 13.375 O 1000 Surf 12.25 9.625 O - 3650 L1 8.75 7 O - 8200 L1 VERIFY THE FOLLOWING ARE ATTE VERIFY THE FOLLOWING ARE ATTE WELL PLAT OR MAP PREPARED BY LICENSED SURVE DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR				RAL OWNERSHIP		TATE FEE (0	6)	12. SURFACE OWNER		STATE		E ()
13. NAME	OF SURFACE		2 = 'fee') VDR,			<u> </u>		52	14. SURFACE OWNER	-	if box 12 :		-0.
15. ADDR	ESS OF SURF	ACE OWNER (if bo			a				16. SURFACE OWNER			= 'fee')	
		OR TRIBE NAME		18. INTE	ND TO COMMINGLE LE FORMATIONS (Submit Commit		-		19. SLANT	RECTIONAL	н	ORIZONT	AL 🔵
20. LOC	ATION OF WEL	L	FC	OOTAGES	C	QTR-QT	R CTI	ON	TOWNSHIP	RA	NGE	ME	RIDIAN
				SL 786 F	EL	SESE			3.0 S	5.0) W		U
Top of U	Top of Uppermost Producing Zone 707				EL	SESE	19		3.0 S	5.0) W		U
At Total	At Total Depth 707 FS				86 FEL 19			3.0 S 5.0 W U			U		
					ANCE TO NEAREST	07	LINE (Feet)		23. NUMBER OF ACRI	ES IN DRIL 640		Т	
					For Drilling of Cor				26. PROPOSED DEPTI		TVD: 1070	00	
27. ELEV	ATION - GROU			28. BONI	D WMBER	JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City Water				
		3931	7	Н	ole, Casing, and								
String	Hole Size	Casing Size	Length	Weight			Max Mud Wt.		Cement		Sacks	Yield	Weight
Cond				54.5	J-55 LT&C		8.4		Class G		1238	1.15	15.8
Surf	12.25	9.625	0 - 3650	40.0	N-80 LT&0	c	8.9		emium Lite High Str		608	2.17	12.0
<u> </u>	8 75	7	0 - 8200	29.0	P-110 LT&	·C	9.9		emium Lite High Str		425 308	2.31	12.0
	0.73	,	0 - 0200	23.0	1-110 E10		9.9		emium Lite High Str		96	1.91	12.5
L1	6.125	4.5	8000 - 10700	13.5	P-110 LT&	C	10.2		50/50 Poz		227	1.45	14.3
					ATTAC	CHMEN.	TS						
	VE	RIFY THE FOLL	OWING ARE ATTA	CHED IN	ACCORDANCE W	VIТН ТН	IE UTAH OIL AN	D GAS	CONSERVATION G	ENERAL	RULES		
✓ w	ELL PLAT OR N	MAP PREPARED B	LICENSED SURVEYO	R OR ENG	iINEER	ľ	COMPLETE DRIL	LING P	LAN				
I ✓ AF	FIDAVIT OF ST	ATUS OF SURFAC	E OWNER AGREEMEN	IT (IF FEE	SURFACE)		FORM 5. IF OPER	ATOR I	S OTHER THAN THE LE	EASE OWN	IER		
DII	RECTIONAL SU	JRVEY PLAN (IF D	RECTIONALLY OR H	ORIZONTA	LLY DRILLED)	ľ	TOPOGRAPHICA	L MAP					
NAME				-	TITLE					PHONE			
SIGNATU	JRE				DATE 06/07/2012					EMAIL			
	BER ASSIGNET 01351466				APPROVAL	Permit Manager							

ALLISON 4-19C5 Sec. 19, T3S, R5W DUCHESNE COUNTY, UT 1/26/12

EL PASO E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>	
Green River	3,524'	
Mahogany Bench	5,074'	
L. Green River	6,374'	
Wasatch	8,074'	
TD	10,700'	

2. Estimated Depths of Anticipated Water Oil, Gas or Mineral Formations:

Substance	Formation .	<u>Depth</u>
	Green River Mahogany Bench	3,524' 5,074'
Oil	L. Green River	6,374
Oil	Wasatch	8,074

3. Pressure Control Equipment: (Schematic Attached)

A 5.0" by 20.0" rotating head on structural pipe from surface to 1000'. A 5.0" by 13 3/8" Rotating Head from 1000' to 3,650' on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 3,650' to 8,200'. An 11.0", 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 8,200' to 10,700'. The BOPE and related equipment will meet the requirements of the 5M and 10M systems respectively.

OPERATORS MINIMUM SPECIFIC FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi Annular will be nippled up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low lest and 4,000 psi high test. The 10M BOP will be installed with 3 $\frac{1}{2}$ " pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Mud logger with gas monitor 3,650' to TD
- B) Choke manifold with one manual and one hydraulid perated choke
- C) Full opening floor valve with drill pipe thread
- D) Upper and lower Kelly cock
- E) Shaker, desander and desilter.

4. Proposed Casing & Cementing Program:

Please refer to the attached well ore diagram and drilling program.

All casing will meet or exceed the following design factors

Burst = 1.00

Collapse = 1.125

Tension = 1.2 Including 100k overpull)

Cement design calculations will be based on 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. 50% excess over gauge volume will be pumped on surface casing.

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight		
Conductor	WBM	8.4 – 8.9		
Surface	WBM	8.9 – 9.9		
Production	WBM	9.9 – 10.2		

Anticipated mud weights are based on actual offset well bottom-hole pressure data plus trip margins. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program**:

Logs:

Mud Log: 3,650' - TD.

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from base of surface casing to TD.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10,700' TD equals approximately 7,233 psi. This is calculated based on a 0.676 psi/foot gradient (13 ppg mud density at TD).

Maximum anticipated surface pressure based on bottom hole pressure equals approximately 4,879 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on hac gradient at 7" casing shoe is 0.8 psi/ft at 10,000' = 4,754 psi

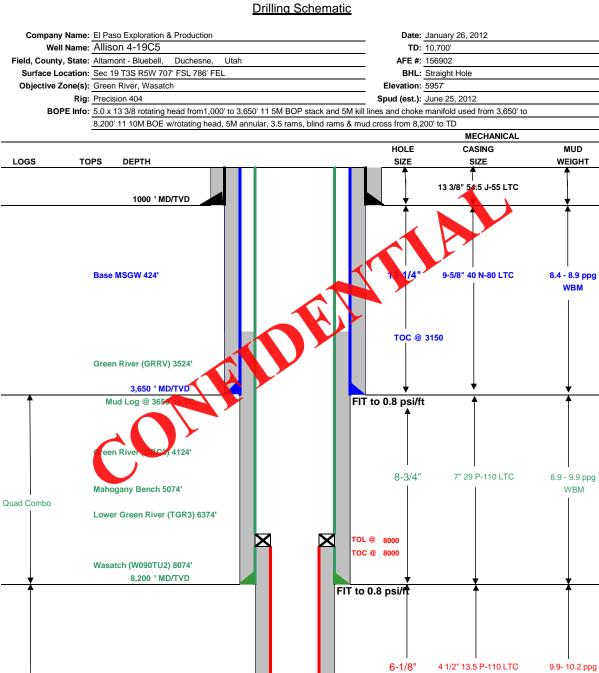
BOPE and casing design is based on the lesser of the two MASPs which is 4,754 psi

8. OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.

Quad Combo

10,700 'MD/TVD





WBM

DRILLING PROGRAM

CASING PROGRAM	SIZE		NTERVA	AL.	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION	
CONDUCTOR	13 3/8"	0	-	1000	54.5	J-55	LTC	2,730	1,130	853	
SURFACE	9-5/8"	0	-	3650	40.00	N-80	LTC	5,750	3,090	916	
INTERMEDIATE	7"	0	-	8200	29.00	P-110	LTC	11,220	8,530	929	
PRODUCTION LINER	4 1/2"	8000	-	10700	13.50	P-110	LTC	12,410	10,680	422	

CEMENT PROGRA	ΔM	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR	-CIVI	1000	Class G + 3% CACL2	1238	100%	15.6 ppg	1.15
SUBFACE	Lead	2,650	Halco-light premium+3 lbm/sk Silicate+0.8% Econolite+2% Salt+2 lbm/sk Kol-Seal+0.25 lb/sk Kwik Se	608	50%	12.0 ppg	2.17
SURFACE	Tail	1,000	Halco-light premium+3 to Silicate+0.3% Economes 1% Salt+0.25 lbm/sk Kol-Seal+ora Lbsk Kwil Seal+	425	75%	14.2 ppg	1.33
	Lead	4,050	Hamo-Light-Prey rum+4% Cantones-0.4/ Econolite+0.2% Islada	308	10%	12.0 ppg	2.31
INTERMEDIATE	Tail	00	Hallco-Light-Premium+0.2% Econolite+ 0.3% Versaset+0.2% Halad322+0.8% HR- 5+ 0.3% SuperCBL+ 0.125 lb/sk Poly-E- Flake	96	10%	12.5 ppg	1.91
PRODUCTION LINER		2,700	Halco- 50/50 Poz Premium Cement+20% SSA-1+0.3% Super CBL+ 0.3% Halad- 344+0.3% Halad-413+ 0.2% SCR-100+ 0.125 lb/sk Poly-E-Flake + 3 lb/sk Silicat	227	25%	14.3 ppg	1.45

FLOAT EQUIPMENT & CENTRALIZERS

CONDUCTOR

PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.

SURFACE

PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.

INTERMEDIATE

PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment.

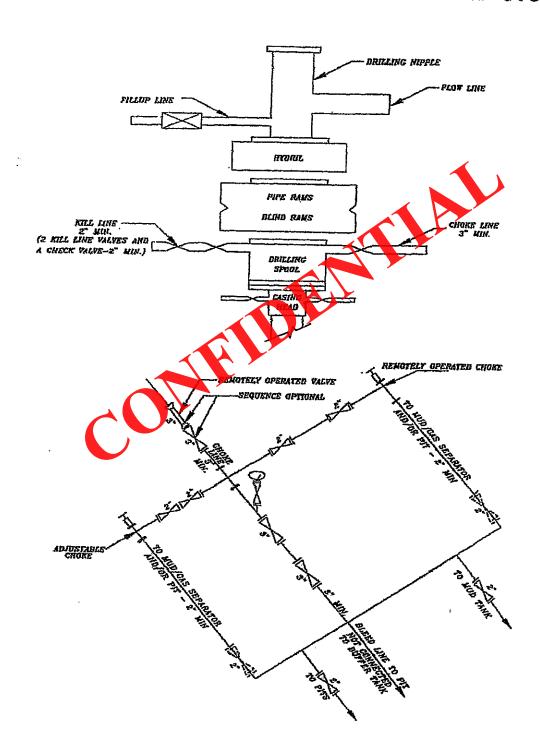
LINER

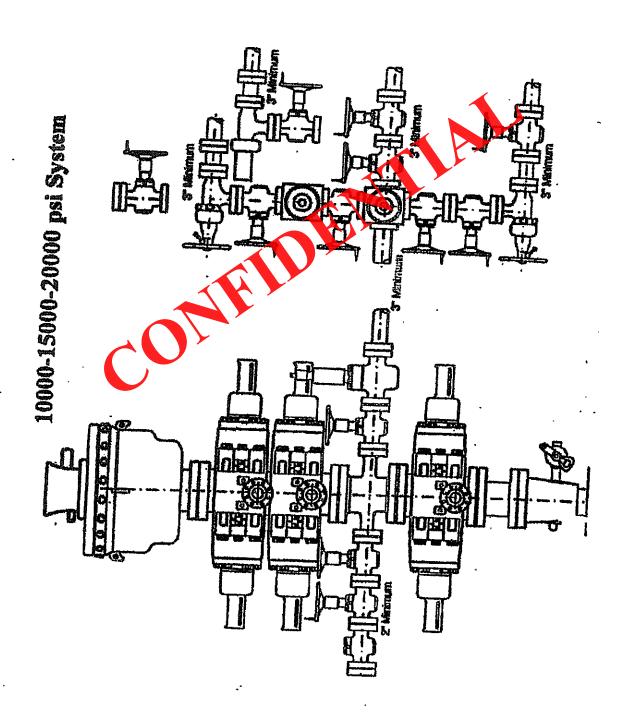
Float shoe, 1 joint, float collar. Rigid centralizer every other joint. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Brent Baker 713-420-3323

MANAGER: Scott Palmer

5M BOP STACK and CHOKE MANIFOLD SYSTEM





EL PASO E&P COMPANY, L.P.

ALLISON 4-19C5 SECTION 19, T3S, R5W, U.S.B. &M.

PROCEED WEST ON PAVED STATE HIGHWAY 40 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 6.7 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EAST AND THEN NORTH ON PAYED COUNTY ROAD 1.29 MILES TO AN INTERSECTION;

CONTINUE NORTH ON GRAVEL ROAD 3.13 MINES TO AN INTERSECTION.

TURN RIGHT AND TRAVEL SOUTHFASTERLY ON GRAVEL ROAD 0.98 MILES TO AN INTERSECTION.

CONTINUE SOUTHERLY IN GRAVEL ROAD 0.84 MILES TO AN INTERSECTION.

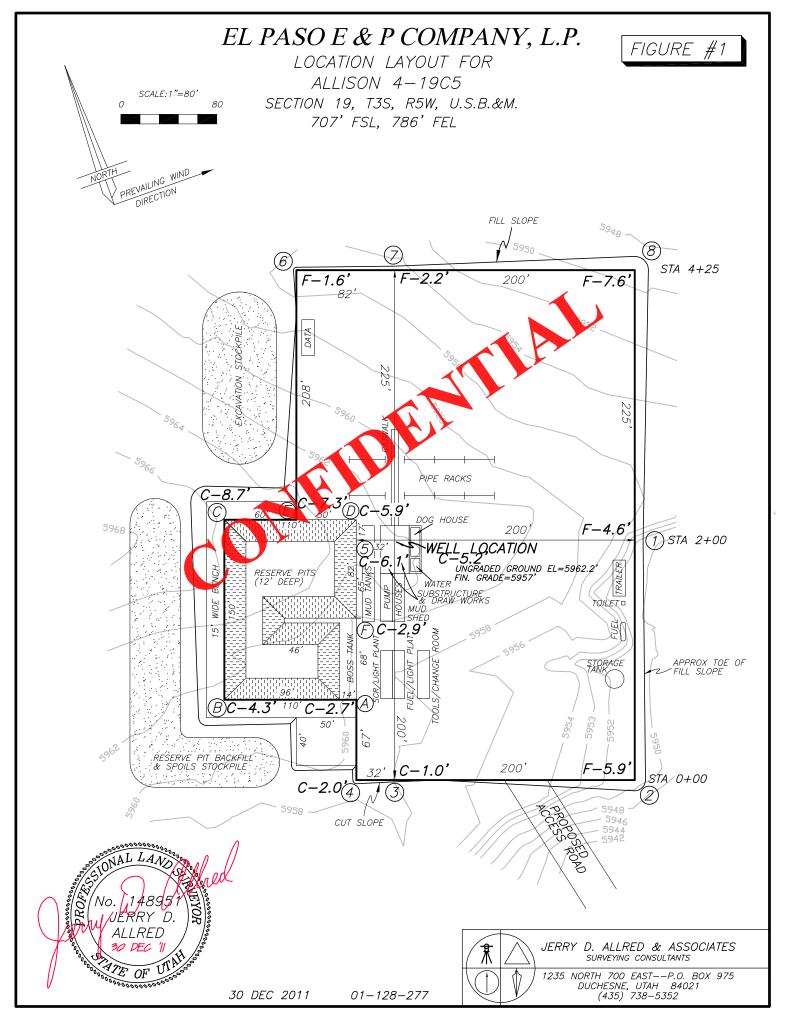
TURN RIGHT AND TRAVEL WESTERLY AND THEN SOUTHERLY 0.83 MILES TO AN INTERSECTION.

CONTINUE SOUTHERLY 0.39 MILES ON OLD ROAD GRADE (NEEDS IMPROVEMENT) TO THE BEGINNING OF THE ACCESS ROAD.

TURN RIGHT AND FOLLOW ROAD FLAGS WEST APPROXIMATELY 0.19 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 14.35 MILES.

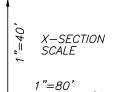
RECEIVED: June 07, 2012



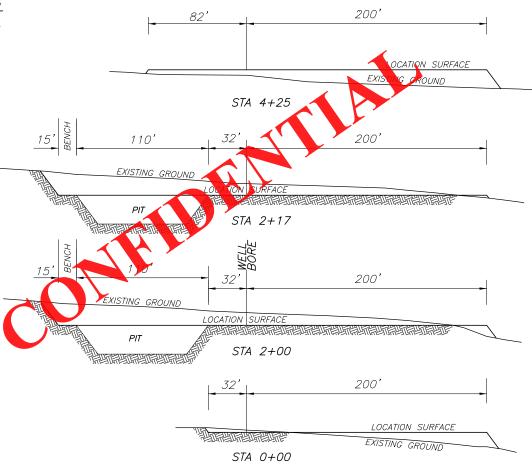
EL PASO E & P COMPANY, L.P.

LOCATION LAYOUT FOR
ALLISON 4-19C5
SECTION 19, T3S, R5W, U.S.B.&M.
707' FSL, 786' FEL

FIGURE #2



NOTE: ALL CUT/FILL SLOPES ARE 1½:1 UNLESS OTHERWISE NOTED



APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 16,980 CU. YDS.

 $TOTAL \ FILL = 8768 \ CU. \ YDS.$

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=807 CU. YDS.

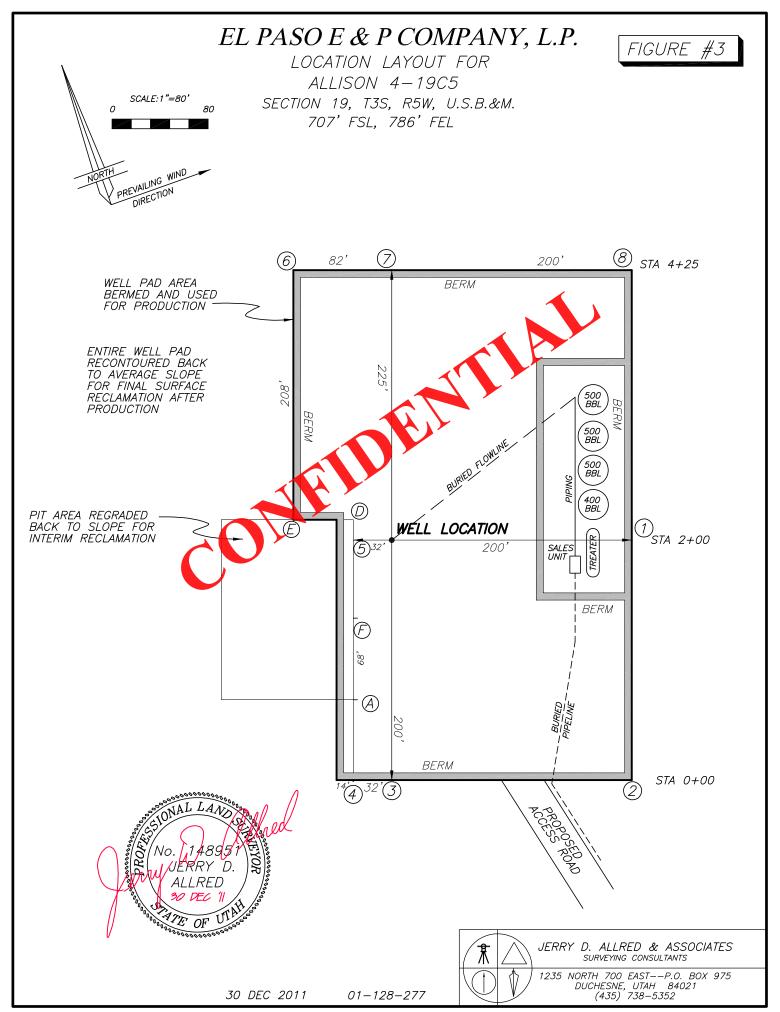


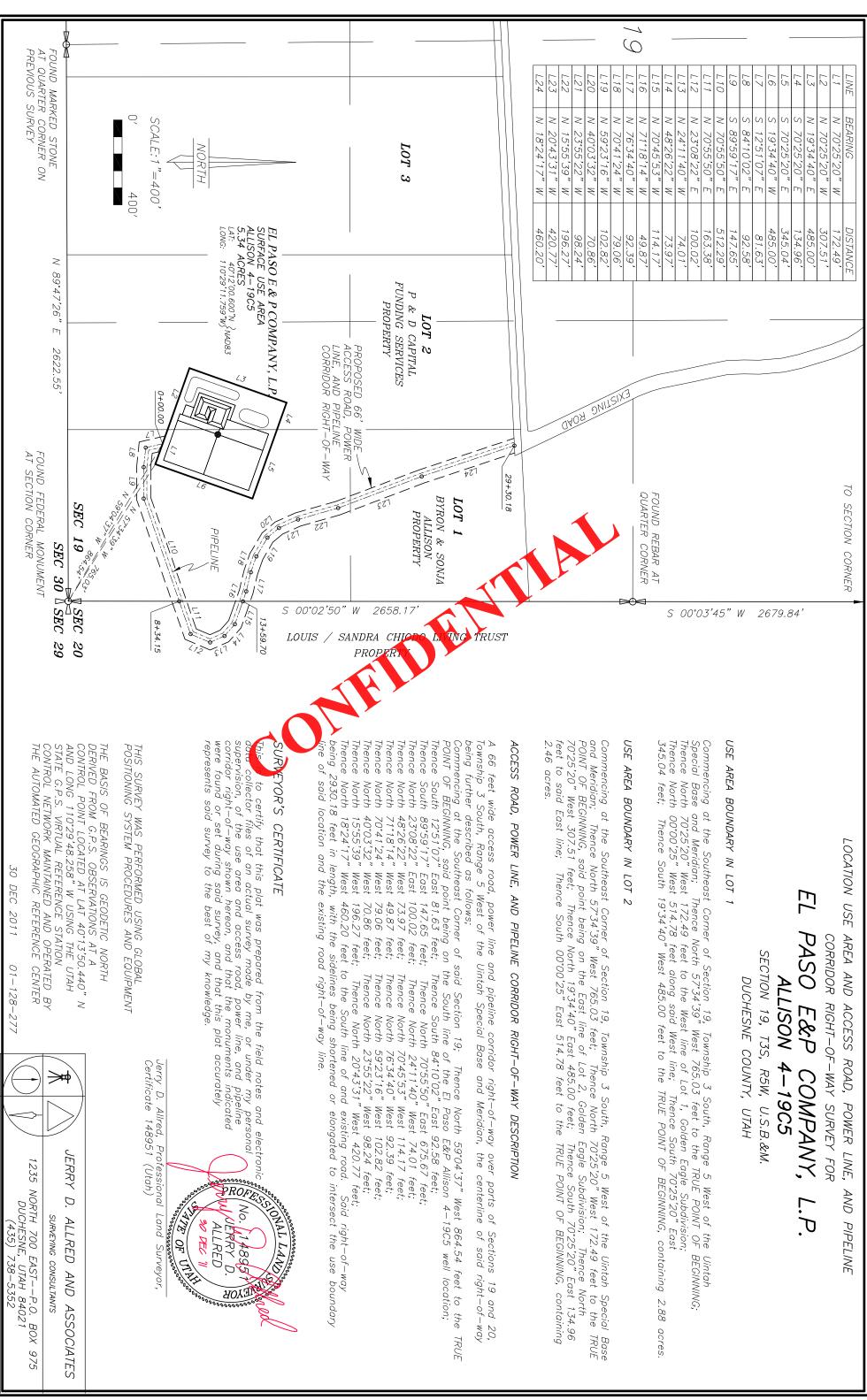
JERRY D. ALLRED & ASSOCIATES SURVEYING CONSULTANTS

1235 NORTH 700 EAST——P.O. BOX 975 DUCHESNE, UTAH 84021 (435) 738—5352

30 DEC 2011

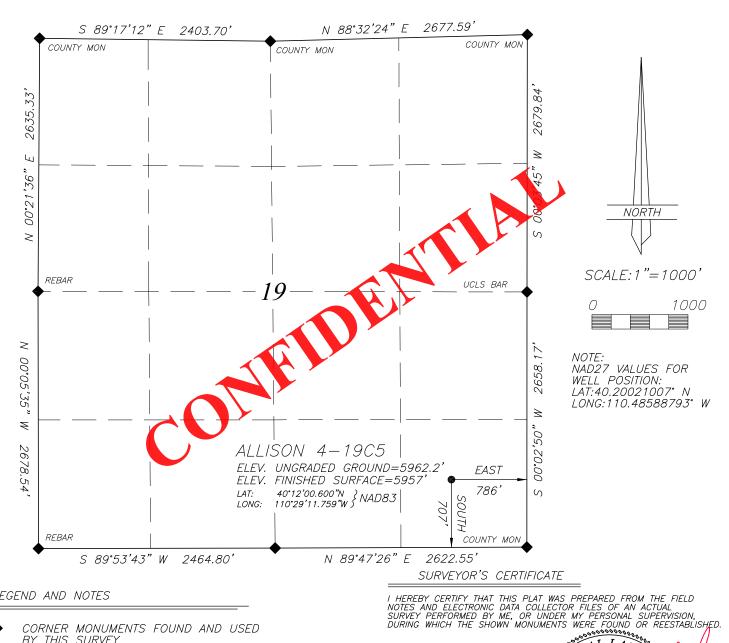
01-128-277





EL PASO E & P COMPANY, L.P.

WELL LOCATION ALLISON 4-19C5 LOCATED IN THE SE¼ OF THE SE¼ OF SECTION 19, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH



LEGEND AND NOTES

CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

> THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT 40°13'50.440"N AND LONG 110°29'48.258"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

JERRY D. ALLRED, REGISTERED LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES SURVEYING CONSULTANTS

ATE OF

ONAL LAND

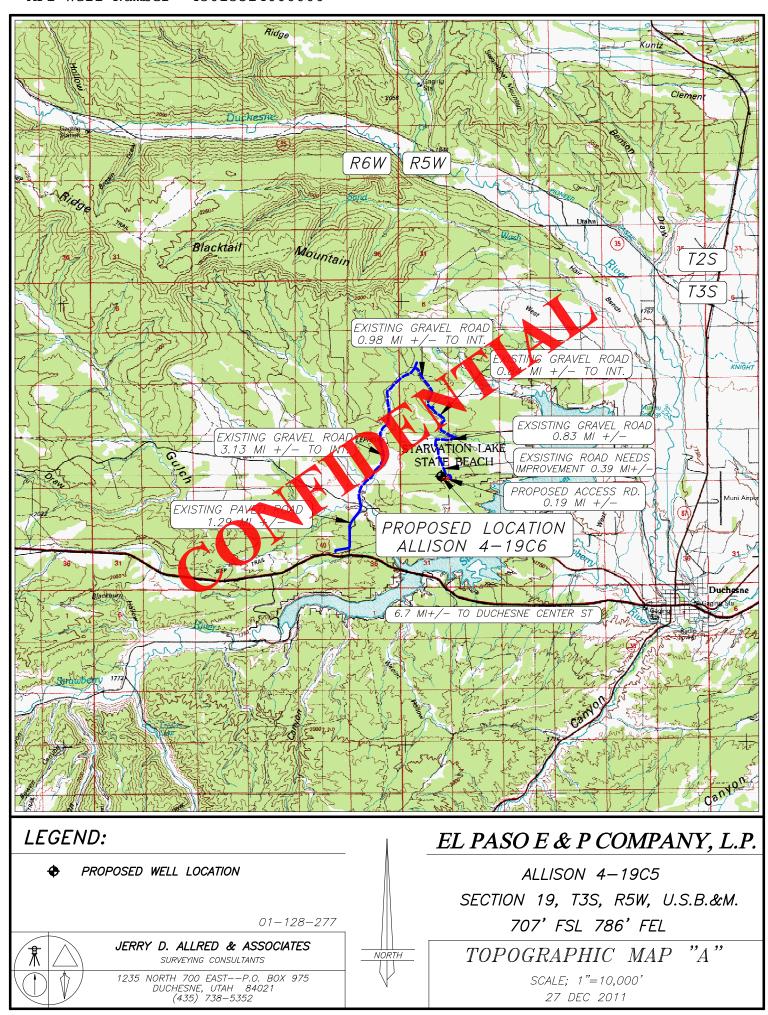
14895

NERRY D.

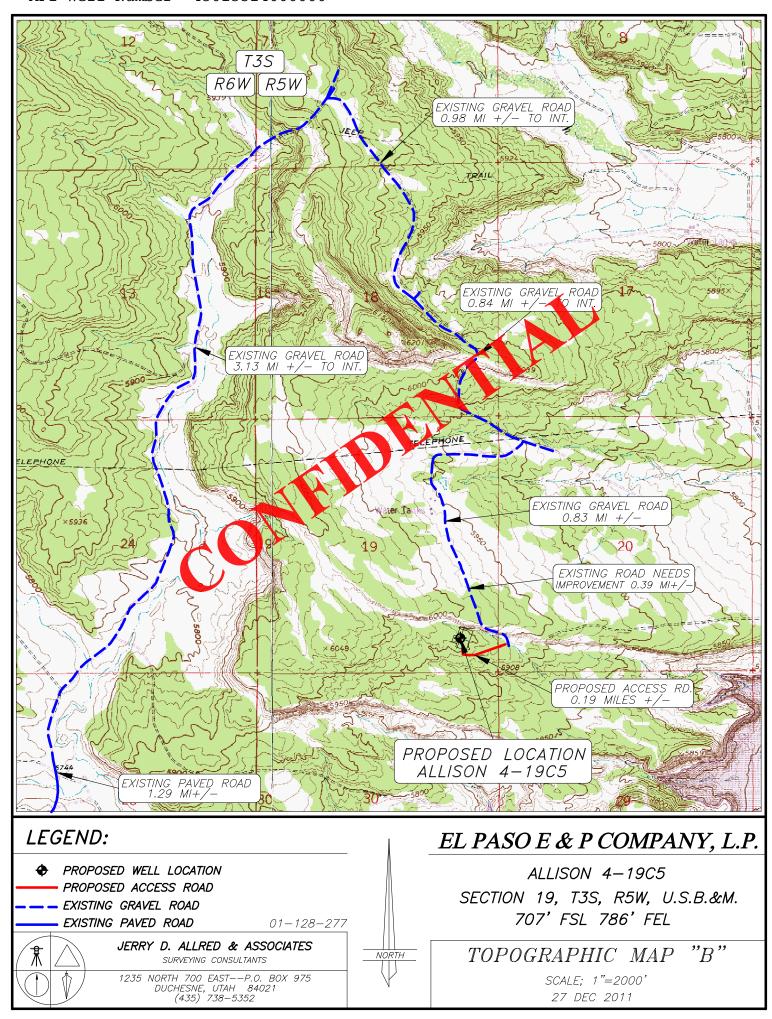
ALLRED

1235 NORTH 700 EAST——P.O. BOX 975 DUCHESNE, UTAH 84021 (435) 738—5352

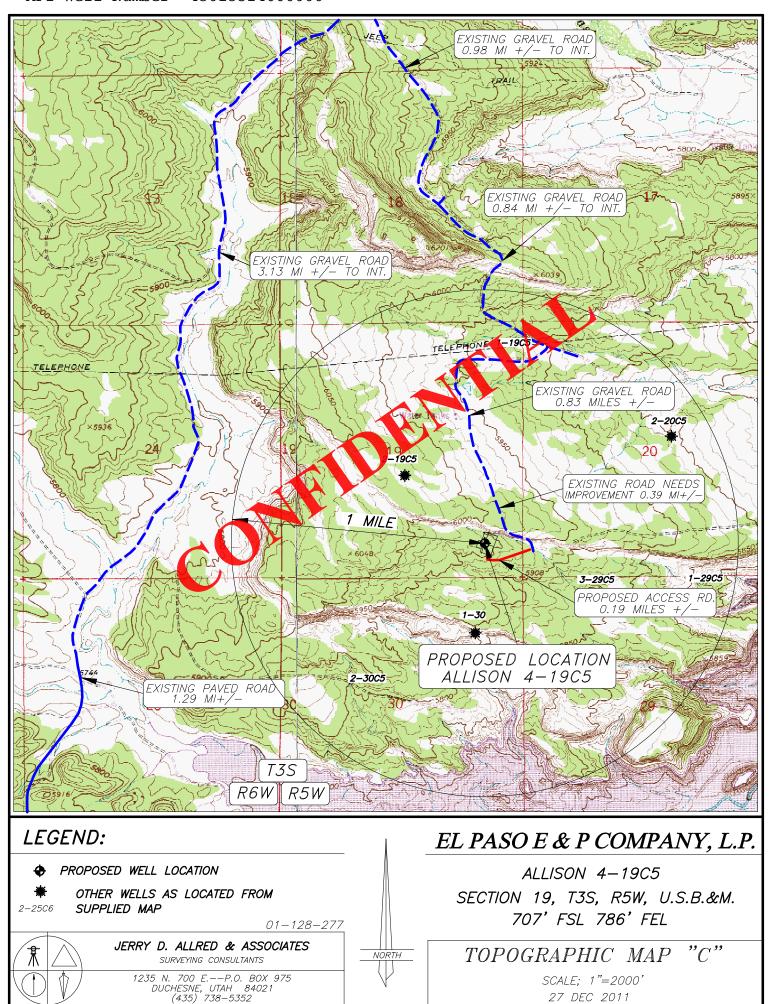
23 DEC 2011 01-128-277



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RECEIVED: June 07, 2012

27 DEC 2011

AFFIDAVIT OF SURFACE DAMAGE AND RIGHT-OF-WAY AGREEMENTS

Heather Ivie personally appeared before me, and, being duly sworn, deposes and says:

- 1. My name is Heather Ivie. I am an Independent Landman, under contract with Transcontinent Oil Company, acting as Agent for El Paso E&P Company, L.P., whose address is 1001 Louisiana Street, Houston, Texas 77002 ("El Paso").
- 2. El Paso is the operator of the proposed Allison 4-19C5 Well ("the Well") to be located in Lot 1 of the Golden Eagle Subdivision, Phase 1 of Section 19, Township 3 South, Range 5 West, USM, Duchesne County, Utah (the "Drill Site Location"). The surface owner of the Drill Site Location is VRD, LLC, a Utah Limited Liability Company, represented by Bryan Allison, Manager, and Sonja Allison, Manager, whose address is 3867 Village Round Drive, Park City, Utah, 84098 and telephone number is (435) 659-6388 (the "Surface Owner").
- 3. El Paso and the Surface Owner have entered into a Damage Settlement and Release Agreement dated May 9, 2012 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operation associated with the drilling of the Well.
- 4. El Paso and the Surface Owner have also entered into a Right-of-Way Agreement dated May 9, 2012 for an access may, pipeline and power line corridor across Lot 1 of the Golden Eagle Subdivision, Phase 1 of Section 19, Township 3 South, Range 5 West, USM, Duchesne County, Utah.

FURTHER AFFLANT SAYETH NOT.

ACKNOWLEDGEMENT

STATE OF UTAH)
COUNTY OF DUCHESNE) SS

This instrument was acknowledged before me on this the day of day of 2012 by **Heather Ivie**, as a Landman acting as Agent for EL PASO E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.

Notary Public
BYRON T MOOS
Commission Number 582069
My Commission Expires
March 22, 2014
State of Utah

Notary Public for the State of Utah

API Well Number: 43013514660000 Application for Permit to Drill – State DOGM

Allison 4-19C5 Duchesne County, Utah

EL PASO E&P COMPANY, L.P.

Related Surface Information

1. <u>Current Surface Use:</u>

Livestock Grazing and Oil and Gas Production.

2. <u>Proposed Surface Disturbance:</u>

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .19 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. Location Of Existing Wells:

Existing oil, gas wells within one (1) mile radius of proposed well are provided EXHIBIT C.

4. Location And Type Of Drilling Water Supply:

• Drilling water: Duchesne City Water

Existing/Proposed Facilities For Productive Well:

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .19 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch gas line and one 2 inch gas line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reserved. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent seiterosion and accommodate safe, year-round traffic.

6. Construction Materials:

 Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the vent that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. Methods For Handling Waste Disposal:

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be place in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any
 hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a
 later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. Ancillary Facilities:

There will be no ancillary facilities associated with this project.

RECEIVED: June 07, 2012

Allison 4-19C5

Application for Permit to Drill – State DOGM

Duchesne County, Utah

9. **Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 - 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 - 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 - 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 - 1. All rehabilitation work including seeding will be completed s son as weather and the reserve pit conditions are appropriate.
 - Landowner will be contacted for rehabilitation requirements.

10. **Surface Ownership:**

VRD, LLC 3867 Village Round Drive Park City, Utah 84098 435-659-6388

Other Information:

- The surface soil consists clay, and silt.
- Flora vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna antelobe, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surfaceuses Livestock grazing and mineral exploration and production.

Operator and Contact Persons:

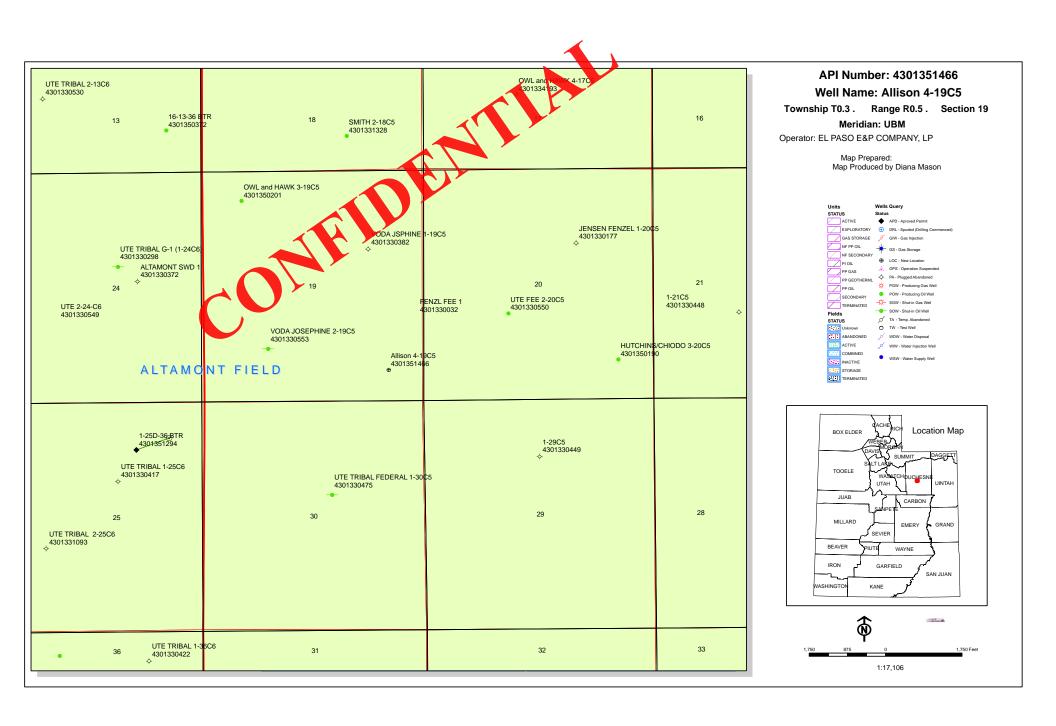
Construction and Reclamation: El Paso E & P Company **Wayne Garner** PO Box 410 Altamont, Utah 84001 435-454-3394 - Office 435-823-1490 - Cell

Regarding This APD El Paso E & P Company Maria S. Gomez 1001 Louisiana, Rm 2730D Houston, Texas 77002 713-997-5038 - Office

Drilling

El Paso E & P Company Joe Cawthorn - Drilling Engineer 1001 Louisiana, Rm 2523B Houston, Texas 77002 713-997-5929 - office 832-465-2882 - Cell

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*Max Pressure Allowed @ Previous Casing Shoe=

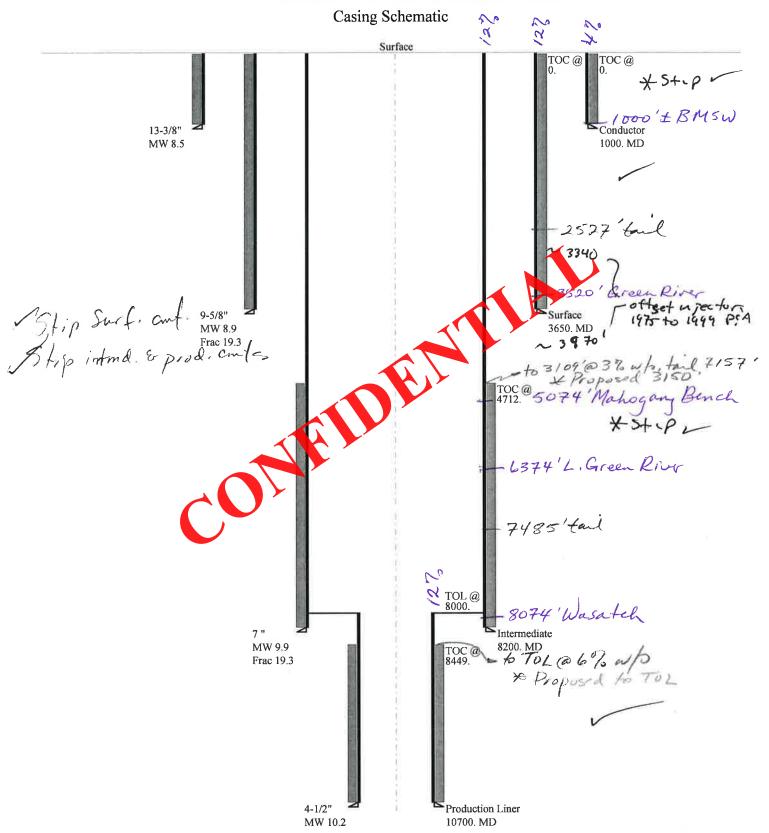
BOPE REVIEW EP ENERGY E&P COMPANY, L.P. Allison 4-19C5 43013514660000

Well Name		EP ENERGY E&	P COMPANY, L.P.	Allison 4-19C5 4	3013514660000	<u> </u>
String		Cond	Surf	11	L1	
Casing Size(")		13.375	9.625	7.000	4.500	1
Setting Depth (TVD)		1000	3650	8200	10700	
Previous Shoe Setting Dept	h (TVD)	0	1000	3650	8200	
Max Mud Weight (ppg)		8.4	8.9	9.9	13.0	
BOPE Proposed (psi)		1000	1000	5000	10000	
Casing Internal Yield (psi)		2730	5750	11220	12410	
Operators Max Anticipated	Pressure (psi)	7233			13.0	
Calculations		Cond Str	ring		13.375	"
Max BHP (psi)		.0)52*Setting D	epth*MW=	437	
						BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ing Depth)=	317	YES
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ing Depth)=	217	YES OK
						*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	etting Depth	- Previous Sh	ioe Depth)=	217	NO OK	
Required Casing/BOPE Tes					1000	PVI
*Max Pressure Allowed @ 1	Previous Casing	Shoe=			0	psi Assumes 1psi/ft frac gradient
Calculations		Surf Stri	ing		9 625	"
Max BHP (psi)		.0)52*Setting D	oepth*MW=	1609	
						BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P (0.12*Sexti	ing Depth)=	1251	NO
MASP (Gas/Mud) (psi)		Max BH	P (0.22*Seta	ng Depth)=	886	YES OK
						*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe		etting Depth	- Previous Sh	ioe Depth)=	1106	NO OK
Required Casing/BOPE Tes					3650	psi
*Max Pressure Allowed @ 1	Previous Casing	Shoe=			1000	psi *Assumes 1psi/ft frac gradient
Calculations		I1 Strin	ıg		7.000	III
Max BHP (psi)		.0)52*Setting D	epth*MW=	4221	
						BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ing Depth)=	3237	YES
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ing Depth)=	2417	YES OK
Pressure At Previous Shoe	Mow DIID 22*/C	Catting Danth	Danvious Ch	oo Donth)-		*Can Full Expected Pressure Be Held At Previous Shoe?
Required Casing/BOPE Tes		— Deptil	- Flevious 31	loe Deptii)=	3220	ysi OK
•		Chao-			7854	
*Max Pressure Allowed @ l	rrevious Casing	Shoe=			3650	psi *Assumes 1psi/ft frac gradient
Calculations		L1 Strir	ng		4.500	"
Max BHP (psi)		.0)52*Setting D	Pepth*MW=	7233	
						BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)			P-(0.12*Setti		5949	YES
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ing Depth)=	4879	YES OK
Pressure At Previous Shoe	May DUD 22*/C	Catting Dants	Draviana Ct.	oo Donth	<u> </u>	*Can Full Expected Pressure Be Held At Previous Shoe?
Paguired Casing/ROPE Tas	· ·	etting Depth	- rievious Sn	ое Бериі)=	6683	YES

8200

*Assumes 1psi/ft frac gradient

43013514660000 Allison 4-19C5



Well name:

43013514660000 Allison 4-19C5

Operator:

EL PASO E & P COMPANY, LP

String type:

Project ID:

Conductor

43-013-51466

Location:

DUCHESNE COUNTY

Environment:

Collapse

Mud weight: Internal fluid density:

Design parameters:

Collapse: Design factor 8.500 ppg

Minimum design factors:

1.125

H2S considered?

No 74 °F Surface temperature: Bottom hole temperature:

nal string.

Temperature gradient:

88 °F 1.40 °F/100ft

Minimum section length:

100 ft

Burst:

Design factor

1.00

Cement top:

Surface

Burst

Max anticipated surface

No backup mud specified.

pressure: Internal gradient: Calculated BHP

322 psi 0.120 psi/ft

1,000 ppg

442 psi

Tension: 8 Round STC:

> 8 Round LTC: Buttress:

Premium: Body yield:

1.80 (J) 1.70

50

Tension is bas d n air weight. Neutral pe 874 ft

Run Seq	Segment Length	Size	Nominal Weight	Grade	End Finish	True Vert Depth	Measured Depth	Drift Diameter	Est. Cost	
1	(ft) 1000	(in) 12:375	(10s/f)) 54.50	J-55	ST&C	(ft) 1000	(ft) 1000	(in) 12.49	(\$) 12408	
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor	
1	390	1130	2 900	442	2730	6.18	54.5	514	9.43 J	

Prepared

by:

Helen Sadik-Macdonald

Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: July 17,2012 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.5 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Well name:

43013514660000 Allison 4-19C5

Operator:

EL PASO E & P COMPANY, LP

String type:

Surface

Project ID:

43-013-51466

Location:

COUNTY **DUCHESNE**

> Minimum design factors: **Environment:**

Collapse

Mud weight: 8.900 ppg Internal fluid density: 1.000 ppg Collapse: Design factor

1.125

H2S considered?

No 74 °F Surface temperature: Bottom hole temperature: 125 °F

Temperature gradient: Minimum section length:

1.40 °F/100ft

100 ft

Burst:

Design factor

1.00

Cement top:

Surface

Burst

Max anticipated surface pressure:

No backup mud specified.

Internal gradient: Calculated BHP

Design parameters:

2,413 psi 0.220 psi/ft

3,216 psi

8 Round STC: 8 Round LTC: Buttress:

Body yield:

Tension:

1.80 (J) 1.70 50 (Premium:

20

Tension is based in air weight. Neutral pe 3.167 ft nal string.

Re subsequent strings:

Next setting depth: 8,200 ft 9.900 ppg Next mud weight: Next setting BHP: 4,217 psi Fracture mud wt: 19.250 ppg

Fracture depth: Injection pressure: 3,650 ft 3,650 psi

Run Seq	Segment Length (ft)	Size (in),	Nominal Weight (lbs/fi)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)	
1	3650	9.625	40.00	N-80	LT&C	3650	3650	8.75	46446	
Run Seq	Collapse Load (psi) 1498	Collapse Strength (psi) 3090	Collapse Design Factor 2.063	Burst Load (psi) 3216	Burst Strength (psi) 5750	Burst Design Factor 1.79	Tension Load (kips) 146	Tension Strength (kips) 737	Tension Design Factor 5.05 J	

Prepared

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: July 17,2012 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 3650 ft, a mud weight of 8.9 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Well name:

43013514660000 Allison 4-19C5

Operator:

EL PASO E & P COMPANY, LP

String type:

Intermediate

Project ID:

43-013-51466

Location:

DUCHESNE

COUNTY

Desi	ign	parameters:
------	-----	-------------

Collapse

Mud weight:

9.900 ppg Design is based on evacuated pipe.

Minimum design factors: Collapse:

Design factor

1.125

Environment: H2S considered?

Surface temperature: Bottom hole temperature:

74 °F 189 °F

No

Temperature gradient: Minimum section length: 1,000 ft

1.40 °F/100ft

Burst:

Design factor

1.00

1.80 (J)

1.80 (4)

1.60

Cement top:

4,712 ft

Burst

Max anticipated surface

No backup mud specified.

pressure: Internal gradient: 3,316 psi 0.220 psi/ft

Calculated BHP

5,120 psi

Premium:

Body yield:

Tension: 8 Round STC:

8 Round LTC: **Buttress:**

.50 (1 60 (B

d on air weight. Tension is bas Neutral pa 6,971 ft oral string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

10,700 ft 10.200 ppg 5,670 psi

Fracture mud wt: Fracture depth: Injection pressure:

19.250 ppg 8,200 ft 8,200 psi

Run Seq	Segment Length (ft)	Size (in)	Normal Weight (los/fi)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8200		29.00	P-110	LT&C	8200	8200	6.059	92599
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4217	8530	2.023	5120	11220	2.19	237.8	797	3.35 J

Prepared

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: July 17,2012 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8200 ft, a mud weight of 9.9 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Well name:

43013514660000 Allison 4-19C5

Operator:

EL PASO E & P COMPANY, LP

String type:

Production Liner

Project ID:

43-013-51466

Location:

DUCHESNE COUNTY

> Minimum design factors: **Environment:**

Collapse

Mud weight:

Design parameters:

10.200 ppg

Collapse:

Design factor

H2S considered?

No 74 °F

Internal fluid density: 1.500 ppg 1.125

Surface temperature: Bottom hole temperature: Temperature gradient:

224 °F

Minimum section length: 1,000 ft

1.40 °F/100ft

Burst:

Design factor

1.00

Cement top:

8,449 ft

8,000 ft

Burst

Max anticipated surface

pressure: Internal gradient: Calculated BHP

3,316 psi 0.220 psi/ft

5,670 psi

Tension:

8 Round STC: 8 Round LTC: Buttress:

Premium: Body yield: 1.80 (J) 1.80

60 (B

.50 (

Tension is based on air weight. Neutral pa 10,294 ft Liner to onal string. -dire

No backup mud specified.

Run	Segment		Neminal		End	True Vert	Measured	Drift	Est.	
Seq	Length	Size	Weight	Grade	Finish	Depth	Depth	Diameter	Cost	
	(ft)	(in),	(1 <mark>0</mark> s/f))			(ft)	(ft)	(in)	(\$)	
1	2700	4.5	13.50	P-110	LT&C	10700	10700	3.795	15129	
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension	
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design	
-	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor	
1	4836	10680	2.209	5670	12410	2.19	36.5	338	9.27 J	

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Mining

Phone: 801 538-5357

FAX: 801-359-3940

Date: July 17,2012 Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 10700 ft, a mud weight of 10.2 ppg An Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.

Well Name Allison 4-19C5

API Number 43013514660000 APD No 6197 Field/Unit ALTAMONT

Location: 1/4,1/4 SESE Sec 19 Tw 3.0S Rng 5.0W 707 FSL 786 FEL

GPS Coord (UTM) 543692 4450104 Surface Owner VDR, LLC

Participants

Jared Thacker (E&P Energy); Chad Shaw (EPE Houston); Orion Mitchell (EPE Energy); Ryan Allred (Allred Survey); Cameron Wilkerson (El Paso); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

This well is located in northeastern Utah, approximately 6.7 miles well of Duchense along US Highway 40, then north into the Rabbit Gulch area for 4.42 miles then turn southeast along existing roads to a bench overlooking the Strawberry Reservoir. The immediate topography at the well pad is relatively flat but staked up on a bench that drops off onto a second or lower bench that overlooks the lake. Rocky, sandstone shelves separate these two benches and the surface is dotted with pinion juniper habitat typical of the lower P/J elevation.

Surface Use Plan

Current Surface Use

Recreational

New Road
Miles

Src Const Material Surface Formation

0.19 Width 3-2 Length 425 Onsite UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Pinion juniper, sagebrush, prickly pear cactus, rabbit brush, and other species native to this elevation of the region.

Potential mule deer winter range, mountain lion potential, rabbit, coyote, bird life typical of region and smaller mammals native to area.

Soil Type and Characteristics

Reddish in color, fine grained blow sand with some clays present and underlying sandstone

Erosion Issues Y

Sedimentation Issues Y

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? Paleo Potental Observed? N Cultural Survey Run? Cultural Resources? N

Reserve Pit

Site-Specific Factors	Site Ra	anking	
Distance to Groundwater (feet)	> 200	0	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	High permeability	y 20	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	25	1 Sensitivity Level

Characteristics / Requirements

Proposed referve pit is staked along the southwestern corner of pad, in cut and measuring 10' wide by 150' long by 12' deep, having prevailing winds from he west.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 20 Pit Underlayment Required?

Other Observations / Comments

The landowner was contacted and invited to the presite, but telephoned E&P Energy stating they have had trouble and would not make the meeting. The landowner has been out with the operator several times and will be out again tomorrow to meet with the oil company. The operator has moved this well site to appease the landowner and also to get it out of the state park lands near the reservoir. This land is utilized by the landowners on a regular bases for camping and recreational use, according to the operator.

Dennis Ingram 6/27/2012 **Evaluator** Date / Time

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner CBM
6197	43013514660000	LOCKED	OW	P No
Operator	EP ENERGY E&P COMPAN	Y, L.P.	Surface Owner-APD	VDR, LLC
Well Name	Allison 4-19C5		Unit	
Field	ALTAMONT		Type of Work	DRILL
	SESE 10 3S 5W II	707 FSI 78	S FFI GPS Coord	

Geologic Statement of Basis

(UTM)

543692E 4450104N

Location

El Paso proposes to set 1,000 feet of conductor and 3,650 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,000 feet. A search of Division of Water Rights ecords indicates that there are 20 water wells within a 10,000 foot radius of the center of Section 19. These wells range in depth from 138-500 feet. These wells probably produce water from the Duchesne River Formation. The wells are listed as being used to irrigation, stock watering, oil exploration and domestic. The proposed drilling, caving and cement program should adequately protect usable ground water in this area.

Brad Hill
APD Evaluator
Date / Time

Surface Statement & Basis

Bryon Allison was shown as the landowner of record and therefore contacted by phone on June 18, 2012 and invited to the presite meeting scheduled for June 27, 2012 at 1:00 PM. E&P Energy received a call from the landowner the morning of the presite stating they had trouble and would not make the meeting, and would get with the operator the following day on any new issues they have. A landowner agreement is in place and the operator needs to meet those concerns. The operator has moved this well site to appease the landowner and also to get it out of the state park lands near the reservoir.

Well is located on a bench with rocky, sandstone shelves to the south overlooking another bench above the reservoir. The surface slopes east, northeast and has 4.8' of cut on the high end and 7.3 feet of fill on corner number 8. Underlying sandstone was observed just south of the location indicating blasting or a jack hammer will be utilized to cut the reserve pit. The operator shall make a smooth bottom to the reserve pit and install a 20 mil synthetic liner to prevent seepage of the drilling fluids. If necessary, a felt pad can be added to protect the liner. Berming shall also be done to prevent any fluids from leaving the well site, along with pit fencing to keep out wildlife.

Dennis Ingram 6/27/2012
Onsite Evaluator Date / Time

Conditions of Approval / Application for Permit to Drill

Category Condition

Pits A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.

Pits The reserve pit should be located on the west side of the location.

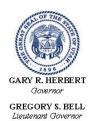
Surface The reserve pit shall be fenced upon completion of drilling operations.

Surface The well site shall be bermed to prevent fluids from leaving the pad.



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/7/2012 API NO. ASSIGNED: 43013514660000 WELL NAME: Allison 4-19C5 OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850) PHONE NUMBER: CONTACT: PROPOSED LOCATION: SESE 19 030S 050W Permit Tech Review: **SURFACE: 0707 FSL 0786 FEL Engineering Review: BOTTOM: 0707 FSL 0786 FEL** Geolog Review: **COUNTY: DUCHESNE LATITUDE**: 40.20020 **-ÓNGITUDE**: -110.48664 **UTM SURF EASTINGS: 543692.00** NORTHINGS: 4450104.00 FIELD NAME: ALTAMONT LEASE TYPE: 4 - Fee **LEASE NUMBER:** Fee PROPOSED PRODU CING ORMATION(S): WASATCH SURFACE OWNER: 4 - Fee **COALBED METHANE: NO RECEIVED AND/OR REVIEWED:** OCATION AND SITING: ✓ PLAT R649-2-3. Bond: STATE/FEE - 400JUQ70 Unit: R649-3-2. General **Potash** Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 139-84 Water Permit: Duchesne City Water **Effective Date: 12/31/2008 RDCC Review:** Siting: 660' Fr Drl U Bdry & 1320' Fr Other Wells **Fee Surface Agreement** Intent to Commingle R649-3-11. Directional Drill **Commingling Approved** Comments: Presite Completed Stipulations: 5 - Statement of Basis - bhill 9 - Cement casing to Surface - ddoucet
12 - Cement Volume (3) - ddoucet
25 - Surface Casing - hmacdonald



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Allison 4-19C5 **API Well Number:** 43013514660000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)

Approval Date: 8/8/2012

Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 7" Intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 3150' as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

The cement volumes for the 13 3/8" casing shall be determined from actual hole conditions and the setting depth of the casing in order to place cement from the pipe setting depth back to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and

mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
 - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

• Carol Daniels 801-538-5284 - office

• Dustin Doucet 801-538-5281 - office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Annuared Dr.

Approveu by:

For John Rogers Associate Director, Oil & Gas **Sundry Number: 30024 API Well Number: 43013514660000**

	FORM 9					
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee					
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME:			
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: ALLISON 4-19C5			
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY,	9. API NUMBER: 43013514660000					
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston,		ONE NUMBER:	9. FIELD and POOL or WILDCAT: ALTAMONT			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FSL 0540 FEL			COUNTY: DUCHESNE			
QTR/QTR, SECTION, TOWNSH	IIP, RANGE, MERIDIAN: 9 Township: 03.0S Range: 05.0W Meridian:	U	STATE: UTAH			
11. CHECK	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	RT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
	ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
9/20/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION			
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
☐ DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION			
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:			
12. DESCRIBE PROPOSED OR		ertinent details including dates, d	lepths. volumes. etc.			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. EP Energy moved surface location as requested by landowner which now makes it an exception location. Please see attached revised location plat with survey package, drilling info and directional. 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining						
Date: September 18, 2012						
			By: Dat K Out			
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE				
Maria S. Gomez	713 997-5038	Principal Regulatory Analyst				
SIGNATURE N/A		DATE 9/18/2012				

RECEIVED

SEP 1 0 2012

DIV. OF OIL, GAS & MINING

August 28, 2012

VIA FACSIMILE (801) 359-3940

Mr. John Rogers Utah Division of Oil, Gas & Mining 1594 West North Temple Salt Lake City, Utah 84116

RE:

EP Energy E&P Company, L.P.'s Allison 4-19C5 Well

Section 19, Township 3 South, Range 5 West

Duchesne County, Utah

Dear Mr. Rogers,

Please be advised that EP Energy E&P Company, L.P. (EPE) has advised Hammack Rocket Properties LLC ("Hammack") of its need to obtain an exception location for its Allison 4-19C5 Well (the "Well") as the surface hole location of the Well is located 540' from the East line of Section 19, Township 3 South, Range 5 West and is therefore not in compliance with the applicable spacing rules.

Please be advised that Hammack, as a working interest owner of Section 20, T3S, R5W, consents to and has no objections to EPE's exception location request for the Well.

Sincerely,

HAMMACK ROCKET PROPERTIES LLC

rvame

Its:

OWNER PRES

Cc: Lauren Williams

RECEIVED AUG 3 0 2012

DIV. OF OIL, GAS & MINING

August 28, 2012

VIA FACSIMILE (801) 359-3940

Mr. John Rogers Utah Division of Oil, Gas & Mining 1594 West North Temple Salt Lake City, Utah 84116

RE:

EP Energy E&P Company, L.P.'s Allison 4-19C5 Well

Section 19, Township 3 South, Range 5 West

Duchesne County, Utah

Dear Mr. Rogers,

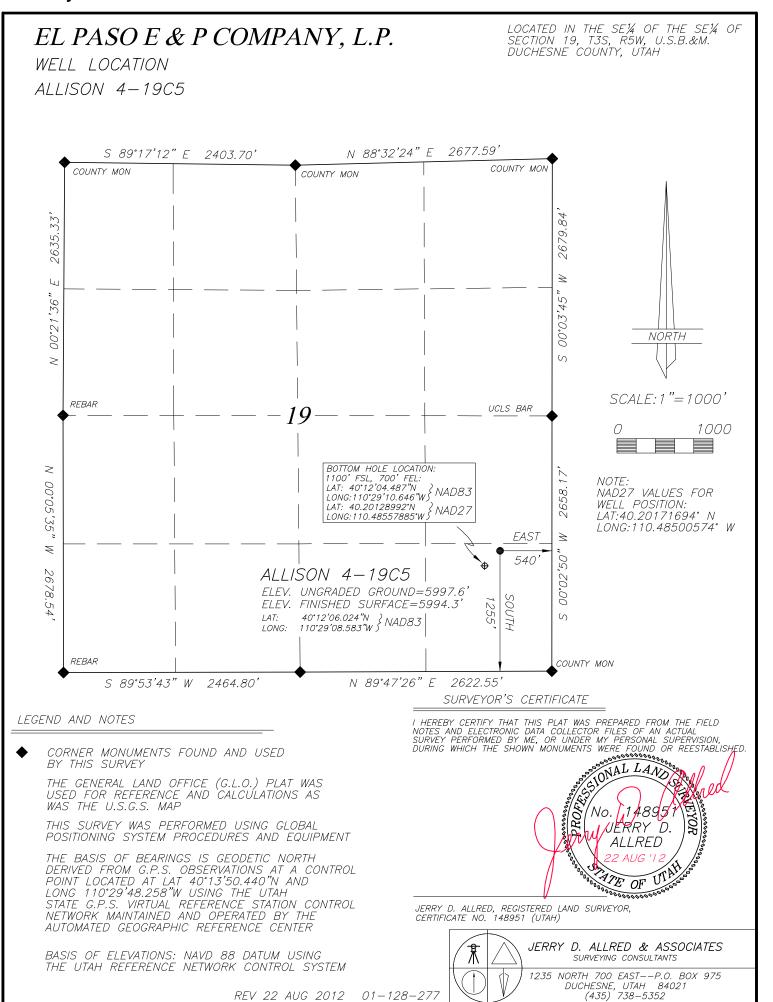
Please be advised that EP Energy E&P Company, L.P. (EPE) has advised Three M Oil Company ("Three M") of its need to obtain an exception location for its Allison 4-19C5 Well (the "Well") as the surface hole location of the Well is located 540' from the East line of Section 19, Township 3 South, Range 5 West and is therefore not in compliance with the applicable spacing rules.

Please be advised that Three M, as a working interest owner of Section 20, T3S, R5W, consents to and has no objections to EPE's exception location request for the Well.

Sincerely,

THREE M OIL COMPANY

Cc: Lauren Williams



REV 22 AUG 2012

01 - 128 - 277

Allison 4-19C5 Sec. 19, T3S, R5W DUCHESNE COUNTY, UT 9/18/12

EL PASO E&P COMPANY, L.P.

DRILLING PROGRAM

1. <u>Estimated Tops of Important Geologic Markers</u>

<u>Formation</u>	<u>Depth</u>
Green River(GRRV)	3,561'
Green River(GRTN1)	4,161'
Mahogany Bench	5,111'
L. Green River	6,411'
Wasatch	8,111'
TD(Permit)	10,700'

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River(GRRV)	3,561'
	Green River(GRTN1)	4,161'
	Mahogany Bench	5,111'
Oil	L. Green River	6,411'
Oil	Wasatch	8,111'

3. **Pressure Control Equipment:** (Schematic Attached)

A 5.0" by 20.0" rotating head on structural pipe from surface to 800'. A 5.0" by 13 3/8" Rotating Head from 800' to 3,560' on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 3,560' to 8,208'. An 11.0", 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 8,200' to 10,708'.The BOPE and related equipment will meet the requirements of the 5M and 10M systems respectively.

OPERATORS MINIMUM SPECIFIC FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi Annular will be nippled up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low lest and 4,000 psi high test. The 10M BOP will be installed

with 3 ½" pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Mud logger with gas monitor 3,560' to TD
- B) Choke manifold with one manual and one hydraulic operated choke
- C) Full opening floor valve with drill pipe thread
- D) Upper and lower Kelly cock
- E) Shaker, desander and desilter.

4. Proposed Casing & Cementing Program:

Please refer to the attached wellbore diagram and drilling program All casing will meet or exceed the following design factors

Burst = 1.00

Collapse = 1.125

Tension = 1.2 (including 100k overpull)

Cement design calculations will be based on 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. 50% excess over gauge volume will be pumped on surface casing.

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Туре	Mud Weight
Conductor	WBM	8.4 – 8.9
Surface	WBM	8.9 – 10.0
Production	WBM	10.0 – 11.0

Anticipated mud weights are based on actual offset well bottom-hole pressure data plus trip margins. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. Evaluation Program:

Logs:

Mud Log: 3,560' - TD.

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from base of surface casing to TD.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10,708' TD equals approximately 6,596 psi. This is calculated based on a 0.616 psi/foot gradient (11 ppg mud density at TD).

Maximum anticipated surface pressure based on bottom hole pressure equals approximately 4,240 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,208' = 6,566 psi

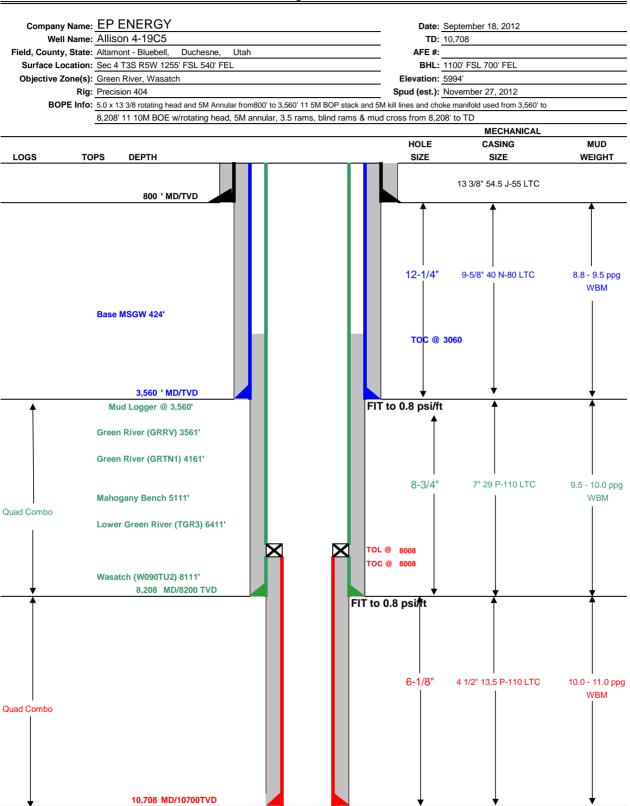
BOPE and casing design is based on the lesser of the two MASPs which is 4,240 psi

8. OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.





Drilling Schematic



Page 2/2

DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	800	54.5	J-55	LTC	2,730	1,140	1,399
SURFACE	9-5/8"	0	3560	40.00	N-80	LTC	3,090	5,750	820
INTERMEDIATE	7"	0	8208	29.00	P-110	LTC	11,220	8,530	797
PRODUCTION LINER	4 1/2"	8008	10708	13.50	P-110	LTC	12,410	10,680	338

CEMENT PROGRA	M	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		800	Class G + 3% CACL2	1000	100%	15.8 ppg	1.15
SURFACE	Lead		Boral Craig POZ 35%, Mountain G 65%, Bentonite Wyoming 8%, Silicate 5 lbm/sk, Pol-E Flake 0.125 lbm/sk, Kwik Seal 0.25 lb/sk	714	75%	12.0 ppg	2.14
SON AGE	Tail	500	Halco-light premium+3 lb/sk Silicate+0.3% Econolite+1% Salt+0.25 lbm/sk Kol- Seal+0.24 lb/sk Kwik Seal+ HR-5	191	50%	14.2 ppg	1.33
INTERMEDIATE	Lead	4,148	Hallco-Light-Premium+4% Bentonite+0.4% Econolite+0.2% Halad322+3 lb/sk Silicalite Compacted+0.8% HR-5+ 0.125 lb/sk Poly- E-Flake	295	10%	12.0 ppg	2.31
	Tail	1,000	Hallco-Light-Premium+0.2% Econolite+ 0.3% Versaset+0.2% Halad322+0.8% HR- 5+ 0.3% SuperCBL+ 0.125 lb/sk Poly-E- Flake	91	10%	12.5 ppg	1.91
PRODUCTION LINER	RODUCTION LINER 2,700 SSA-1+0.3% Super CBL+ 344+0.3% Halad-413+ 0.2%		Halco- 50/50 Poz Premium Cement+20% SSA-1+0.3% Super CBL+ 0.3% Halad- 344+0.3% Halad-413+ 0.2% SCR-100+ 0.125 lb/sk Poly-E-Flake + 3 lb/sk Silicat	200	25%	12.30	1.61

FLOAT EQUIPMENT & C	ENTRALIZERS
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow
CONDOCTOR	spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float
SURFACE	equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float
INTERIVIEDIATE	equipment. Maker joint at 8,000'.
LINER	Float shoe, 1 joint, float collar. Thread lock all FE. Maker joints every 1000'.

 PROJECT ENGINEER(S):
 Joe Cawthorn
 713-997-5929

 MANAGER:
 Tommy Gaydos

EL PASO E&P COMPANY, L.P.

ALLISON 4-19C5 SECTION 19, T3S, R5W, U.S.B.&M.

PROCEED WEST ON PAVED STATE HIGHWAY 40 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 6.7 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EAST AND THEN NORTH ON PAVED COUNTY ROAD 1.29 MILES TO AN INTERSECTION;

CONTINUE NORTH ON GRAVEL ROAD 3.13 MILES TO AN INTERSECTION.

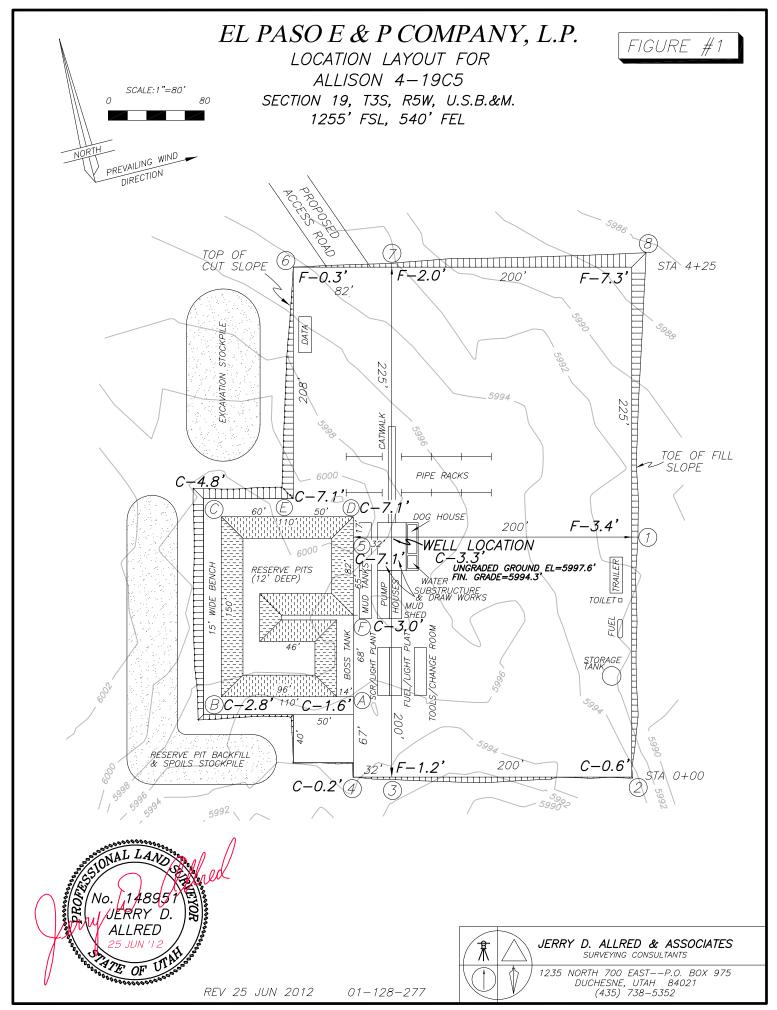
TURN RIGHT AND TRAVEL SOUTHEASTERLY ON GRAVEL ROAD 0.98 MILES TO AN INTERSECTION.

CONTINUE SOUTHERLY ON GRAVEL ROAD 0.84 MILES TO AN INTERSECTION.

TURN RIGHT AND TRAVEL WESTERLY AND THEN SOUTHERLY 0.83 MILES TO AN INTERSECTION.

CONTINUE SOUTHERLY 0.15 MILES ON OLD ROAD GRADE (NEEDS IMPROVEMENT) TO THE PROPOSED WELL LOCATION.

FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 13.92 MILES.



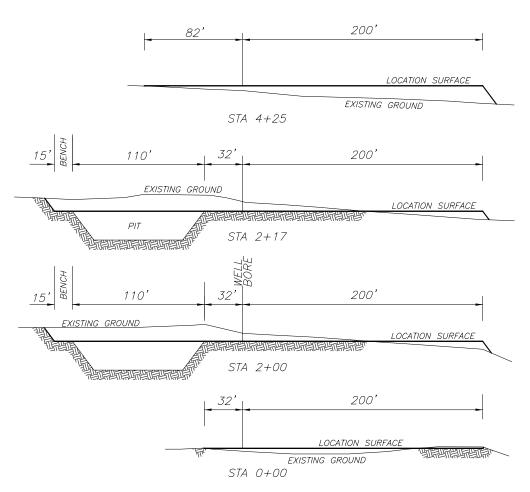
EL PASO E & P COMPANY, L.P.

FIGURE #2

LOCATION LAYOUT FOR
ALLISON 4-19C5
SECTION 19, T3S, R5W, U.S.B.&M.
1255' FSL, 540' FEL



NOTE: ALL CUT/FILL SLOPES ARE 1½:1 UNLESS OTHERWISE NOTED



APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 13,826 CU. YDS.

PIT CUT = 4572 CU. YDS.
TOPSOIL STRIPPING: (6") = 2610 CU. YDS.
REMAINING LOCATION CUT = 6644 CU. YDS

TOTAL FILL = 5036 CU. YDS.

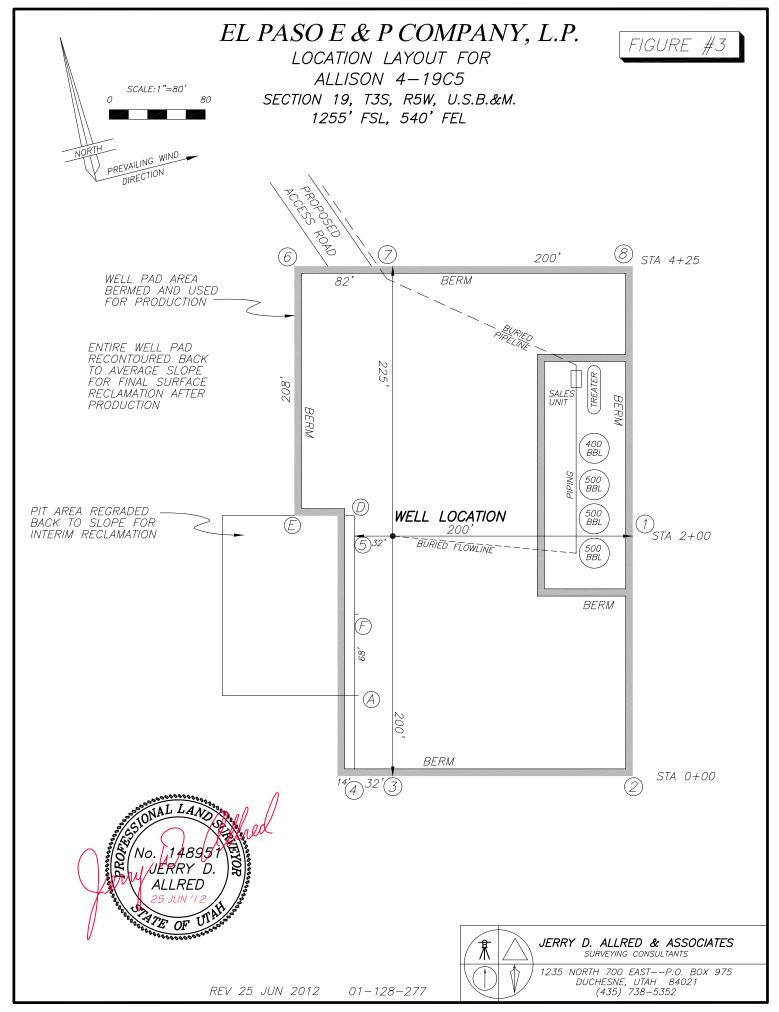
LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)
ACCESS ROAD GRAVEL=167 CU. YDS.

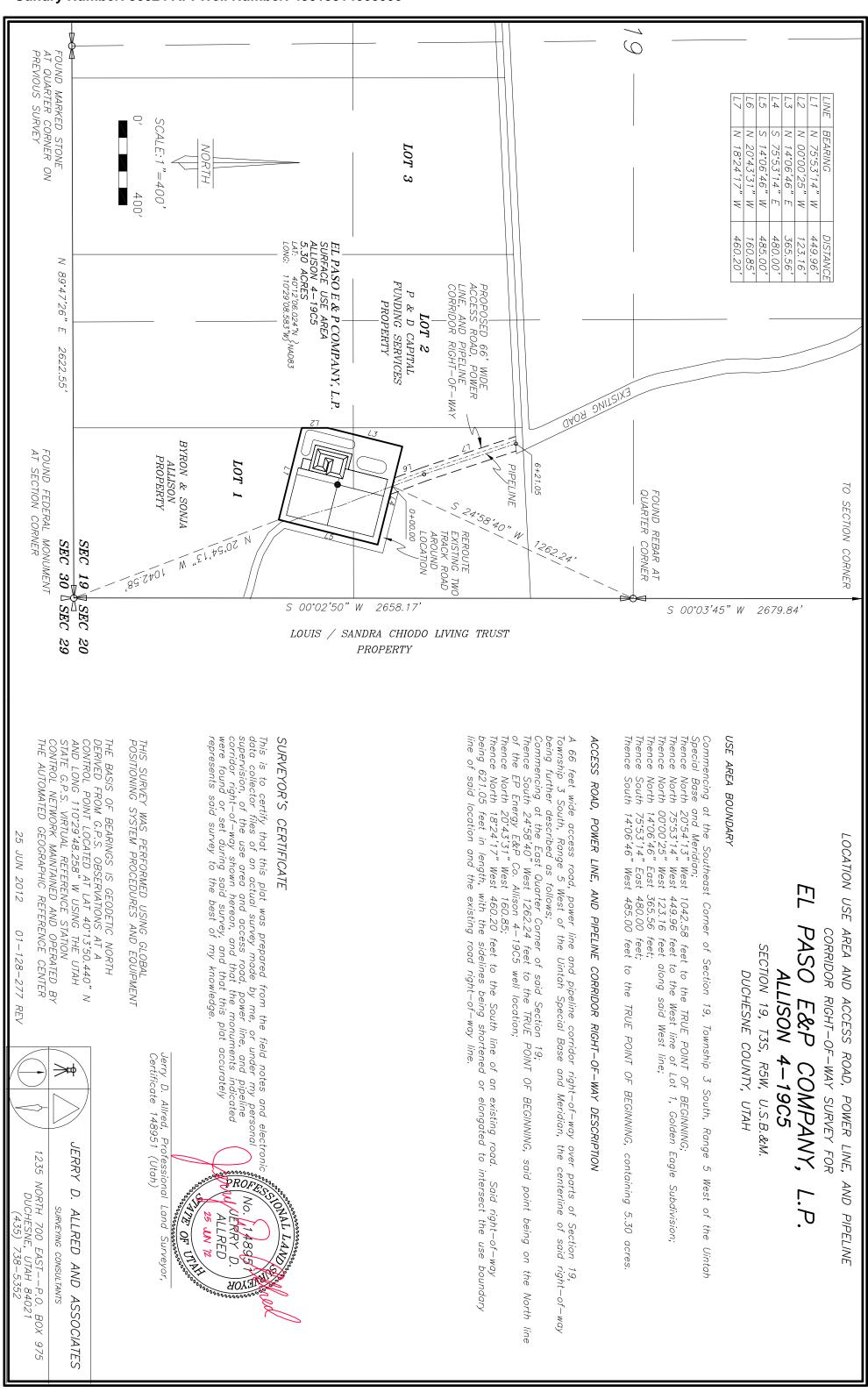


JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

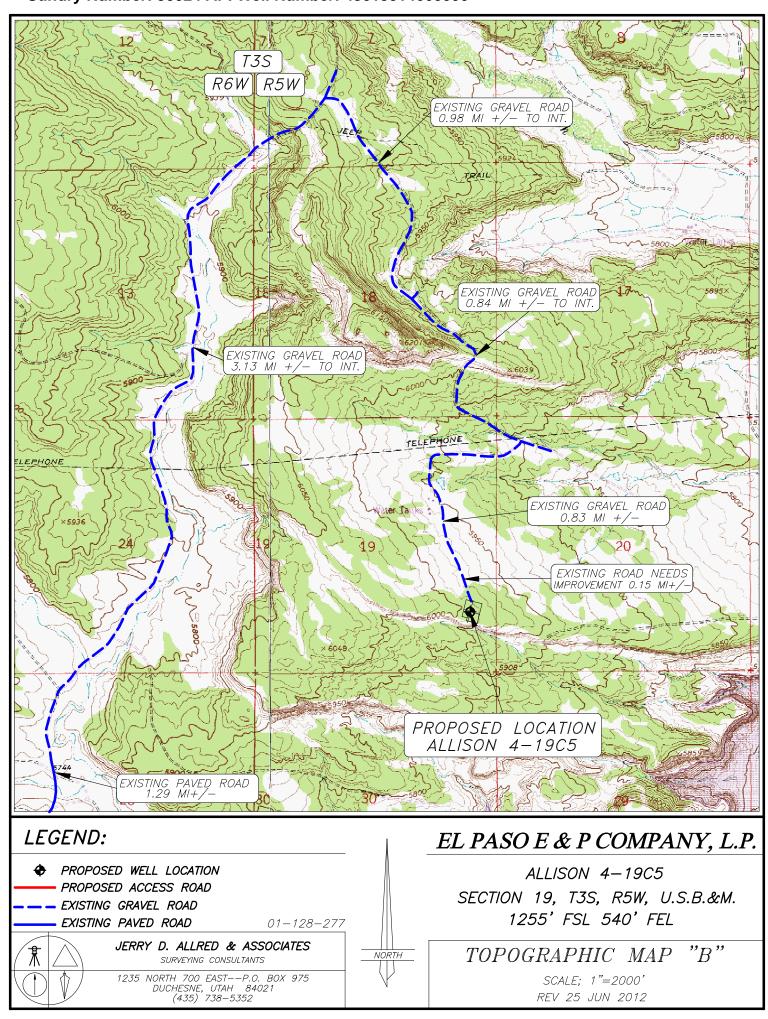
1235 NORTH 700 EAST——P.O. BOX 975 DUCHESNE, UTAH 84021 (435) 738—5352

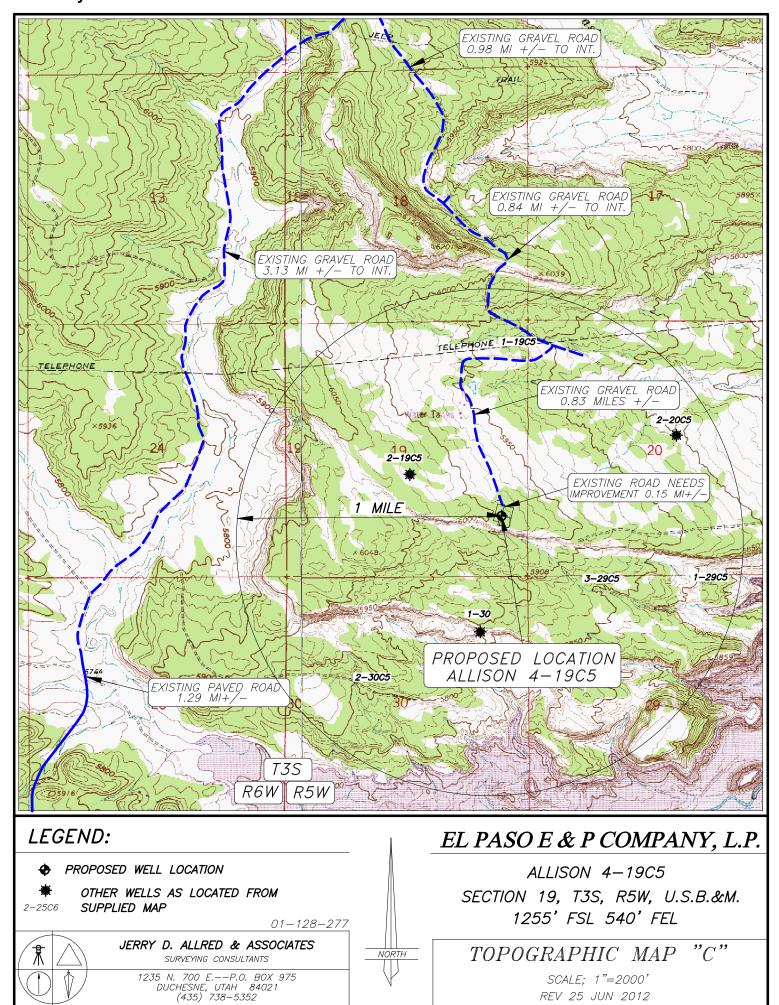
REV 25 JUN 2012 01-128-277













-0-

750

1500

2250

3000

3750

4500

5250

6000

6750

7500

8250

9000-

9750

10500

11250] 1111

True Vertical Depth [1500ft/in]

12-1/4"

Hold

KOP @ 1.5°/100'

Drop @ 1.5°/100'

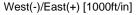
Hold to TD

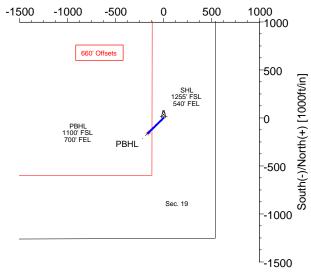
8-3/4"

EP Energy

Field: Duchesne Co, UT Site: Allison 4-19C5 Well: 4-19C5 Wellpath: OH Plan: Plan #1







SITE DETAILS

Allison 4-19C5 Sec. 19-T3S-R5W 540' FEL & 1255' FSL

Site Centre Latitude: 40°12'06.024N Longitude: 110°29'08.583W

Ground Level: 5994.00 Positional Uncertainty: 0.00 Convergence: 0.65

WELLPATH DETAILS

ОН SITE

Origin +N/-S

0.00

6011.00ft

Starting From TVD

10700.00

Origin +E/-W

0.00

Rig: Ref. Datum:

V.Section

225.82°

Angle

FIELD DETAILS

Duchesne Co, UT

Geodetic System: US State Plane Coordinate System 1983 Ellipsoid: GRS 1980 Zone: Utah, Central Zone Magnetic Model: IGRF2010

System Datum: Mean Sea Level Local North: True North

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	10700.00	-155.52	-160.06	7243648.60	1923559.97	Point

SECTION DETAILS

S	iec MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	Trace	VSec	Larget
1	0.00	0.00	225.82	0.00	0.00	0.00	0.00	0.00	-0.00	
2	3200.00	0.00	225.82	3200.00	0.00	0.00	0.00	225.82	-0.00	
3	3481.96	4.23	225.82	3481.70	-7.25	-7.46	1.50	225.82	10.40	
4	6226.03	4.23	225.82	6218.30	-148.27	-152.60	0.00	0.00	212.77	
5	6507.98	0.00	225.82	6500.00	-155.52	-160.06	1.50	180.00	223.18	
6	10707.98	0.00	225.82	10700.00	-155.52	-160.06	0.00	225.82	223.18	PBHL

Vertical Section at 225.82° [1500ft/in]

0

4-1/2" PBHL

750

1500

Ryan Energy Technologies 19510 Oil Center Blvd Houston, TX 77073 Ph: 281-443-1414 Fx: 281-443-1676



Plan: Plan #1 (4-19C5/OH) Date: 9/18/2012 Created By: Douglas Hudson Date: Approved:



Ryan Directional Services Planning Report



Company: EP Energy

Date: 9/18/2012

Time: 10:39:57

Page: 1

Field: Duchesne Co, UT

Site: Allison 4-19C5 Urter Co-ordinate(NE) Reference: Site: Allison 4-19C5, True North
Vertical (TVD) Reference: SITE 6011.0

Well: 4-19C5 Section (VS) Reference: Well (0.00N,0.00E,225.82Azi)

Wellpath: OH Plan: Plan#1

Field: Duchesne Co, UT

Map System: US State Plane Coordinate System 1983Map Zone:Utah, Central ZoneGeo Datum: GRS 1980Coordinate System:Site CentreSys Datum: Mean Sea LevelGeomagnetic Model:IGRF2010

Site: Allison 4-19C5

Sec. 19-T3S-R5W

540' FEL & 1255' FSL **Site Position:** Northing: 7243805.92 ft 40 6.024 N Latitude: 12 From: Geographic Easting: 1923718.26 ft Longitude: 110 29 8.583 W **Position Uncertainty:** 0.00 ft North Reference: True

Position Uncertainty: 0.00 ft North Reference: 1 rue

Ground Level: 5994.00 ft Grid Convergence: 0.65 deg

Well: 4-19C5 Slot Name:

Well Position: +N/-S0.00 ft Northing: 7243805.92 ft Latitude: 40 12 6.024 N +E/-W0.00 ft Easting: 1923718.26 ft Longitude: 110 29 8.583 W

Position Uncertainty: 0.00 ft

Wellpath: OH Drilled From: Surface Tie-on Depth: 0.00 ft SITE Height 6011.00 ft Above System Datum: **Current Datum:** Mean Sea Level 11.35 deg 9/18/2012 **Magnetic Data: Declination:** Field Strength: 52215 nT Mag Dip Angle: 65.81 deg

10700.00 0.00 0.00 225.82

Plan: Plan #1 **Date Composed:** 9/18/2012

Version: 1

Principal: Yes Tied-to: From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ff	Build deg/100f	Turn t deg/100ft	TFO deg	Target
0.00	0.00	225.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	225.82	3200.00	0.00	0.00	0.00	0.00	0.00	225.82	
3481.96	4.23	225.82	3481.70	-7.25	-7.46	1.50	1.50	0.00	225.82	
6226.03	4.23	225.82	6218.30	-148.27	-152.60	0.00	0.00	0.00	0.00	
6507.98	0.00	225.82	6500.00	-155.52	-160.06	1.50	-1.50	0.00	180.00	
10707.98	0.00	225.82	10700.00	-155.52	-160.06	0.00	0.00	0.00	225.82	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+ E/-W ft	VS ft	DLS deg/100f	Build t deg/100f	Turn t deg/100ft	Tool/Comment
0.00	0.00	225.82	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	
100.00	0.00	225.82	100.00	0.00	0.00	-0.00	0.00	0.00	0.00	
200.00	0.00	225.82	200.00	0.00	0.00	-0.00	0.00	0.00	0.00	
300.00	0.00	225.82	300.00	0.00	0.00	-0.00	0.00	0.00	0.00	
400.00	0.00	225.82	400.00	0.00	0.00	-0.00	0.00	0.00	0.00	
500.00	0.00	225.82	500.00	0.00	0.00	-0.00	0.00	0.00	0.00	
600.00	0.00	225.82	600.00	0.00	0.00	-0.00	0.00	0.00	0.00	
700.00	0.00	225.82	700.00	0.00	0.00	-0.00	0.00	0.00	0.00	
800.00	0.00	225.82	800.00	0.00	0.00	-0.00	0.00	0.00	0.00	
900.00	0.00	225.82	900.00	0.00	0.00	-0.00	0.00	0.00	0.00	
900.00	0.00	223.02	900.00	0.00	0.00	-0.00	0.00	0.00	0.00	
4000.00	0.00	205.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	225.82	1000.00	0.00	0.00	-0.00	0.00	0.00	0.00	
1100.00	0.00	225.82	1100.00	0.00	0.00	-0.00	0.00	0.00	0.00	
1200.00	0.00	225.82	1200.00	0.00	0.00	-0.00	0.00	0.00	0.00	
1300.00	0.00	225.82	1300.00	0.00	0.00	-0.00	0.00	0.00	0.00	
1400.00	0.00	225.82	1400.00	0.00	0.00	-0.00	0.00	0.00	0.00	



Ryan Directional Services Planning Report



Company: EP Energy Date: 9/18/2012 Time: 10:39:57 Page: 2
Field: Duchesne Co. UT Co-ordinate(NE) Reference: Site: Allison 4-19C5. True North

Field: Duchesne Co, UT Co-ordinate(NE) Reference: Site: Allison 4-19C5, True North Site: Allison 4-19C5

Vertical (TVD) Reference: SITE 6011.0

Well: 4-19C5 Section (VS) Reference: Well (0.00N,0.00E,225.82Azi)

Wellpath: OH Plan: Plan #1

Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100f	Build t deg/100t	Turn ft deg/100ft	Tool/Comment
1500.00	0.00	225.82	1500.00	0.00	0.00	-0.00	0.00	0.00	0.00	
1600.00	0.00	225.82	1600.00	0.00	0.00	-0.00	0.00	0.00	0.00	
1700.00	0.00	225.82	1700.00	0.00	0.00	-0.00	0.00	0.00	0.00	
1800.00	0.00	225.82	1800.00	0.00	0.00	-0.00	0.00	0.00	0.00	
1900.00	0.00	225.82	1900.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2000.00	0.00	225.82	2000.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2100.00	0.00	225.82	2100.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2200.00	0.00	225.82	2200.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2300.00	0.00	225.82	2300.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2400.00	0.00	225.82	2400.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2500.00	0.00	225.82	2500.00	0.00	0.00	-0.00	0.00	0.00	0.00	12-1/4"
2600.00	0.00	225.82	2600.00	0.00	0.00	-0.00	0.00	0.00	0.00	· - ··· ·
2700.00	0.00	225.82	2700.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2800.00	0.00	225.82	2800.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2900.00	0.00	225.82	2900.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2900.00	0.00	223.62	2900.00	0.00	0.00	-0.00	0.00	0.00	0.00	
3000.00	0.00	225.82	3000.00	0.00	0.00	-0.00	0.00	0.00	0.00	
3100.00	0.00	225.82	3100.00	0.00	0.00	-0.00	0.00	0.00	0.00	
3200.00	0.00	225.82	3200.00	0.00	0.00	-0.00	0.00	0.00	0.00	KOP @ 1.5°/100'
3300.00	1.50	225.82	3299.99	-0.91	-0.94	1.31	1.50	1.50	0.00	
3400.00	3.00	225.82	3399.91	-3.65	-3.75	5.23	1.50	1.50	0.00	
3481.96	4.23	225.82	3481.70	-7.25	-7.46	10.40	1.50	1.50	0.00	Hold
		225.82	3499.69			11.73		0.00		Tiolu
3500.00	4.23			-8.18	-8.41		0.00		0.00	
3600.00	4.23	225.82	3599.42	-13.32	-13.70	19.11	0.00	0.00	0.00	
3700.00	4.23	225.82	3699.15	-18.45	-18.99	26.48	0.00	0.00	0.00	
3800.00	4.23	225.82	3798.88	-23.59	-24.28	33.86	0.00	0.00	0.00	
3900.00	4.23	225.82	3898.61	-28.73	-29.57	41.23	0.00	0.00	0.00	
4000.00	4.23	225.82	3998.33	-33.87	-34.86	48.61	0.00	0.00	0.00	
4100.00	4.23	225.82	4098.06	-39.01	-40.15	55.98	0.00	0.00	0.00	
4200.00	4.23	225.82	4197.79	-44.15	-45.44	63.36	0.00	0.00	0.00	
4300.00	4.23	225.82	4297.52	-49.29	-50.73	70.73	0.00	0.00	0.00	
4400.00	4.00	005.00	1007.04	54.40	50.00	70.44	0.00	0.00	0.00	
4400.00	4.23	225.82	4397.24	-54.43	-56.02	78.11	0.00	0.00	0.00	
4500.00	4.23	225.82	4496.97	-59.57	-61.31	85.48	0.00	0.00	0.00	
4600.00	4.23	225.82	4596.70	-64.71	-66.60	92.86	0.00	0.00	0.00	
4700.00	4.23	225.82	4696.43	-69.85	-71.89	100.23	0.00	0.00	0.00	
4800.00	4.23	225.82	4796.15	-74.99	-77.18	107.61	0.00	0.00	0.00	
4900.00	4.23	225.82	4895.88	-80.13	-82.47	114.98	0.00	0.00	0.00	
5000.00	4.23	225.82	4995.61	-85.27	-87.75	122.36	0.00	0.00	0.00	
5100.00	4.23	225.82	5095.34	-90.40	-93.04	129.73	0.00	0.00	0.00	
5200.00	4.23	225.82	5195.07	-95.54	-98.33	137.11	0.00	0.00	0.00	
5300.00	4.23	225.82	5294.79	-100.68	-103.62	144.48	0.00	0.00	0.00	
5400.00	4.23	225.82	5394.52	-105.82	-108.91	151.86	0.00	0.00	0.00	
5500.00	4.23	225.82	5494.25	-110.96	-114.20	159.23	0.00	0.00	0.00	
5600.00	4.23	225.82	5593.98	-116.10	-119.49	166.61	0.00	0.00	0.00	
5700.00	4.23	225.82	5693.70	-121.24	-124.78	173.98	0.00	0.00	0.00	
5800.00	4.23	225.82	5793.43	-126.38	-130.07	181.36	0.00	0.00	0.00	
5900.00	4.23	225.82	5893.16	-131.52	-135.36	188.73	0.00	0.00	0.00	
6000.00	4.23	225.82	5992.89	-136.66	-140.65	196.11	0.00	0.00	0.00	
6100.00	4.23	225.82	6092.61	-141.80	-145.94	203.48	0.00	0.00	0.00	
6200.00			6192.34	-141.60	-145.94	210.86	0.00	0.00		
	4.23	225.82							0.00	Drop @ 1 5°/100'
6226.03	4.23	225.82	6218.30	-148.27	-152.60	212.77	0.00	0.00	0.00	Drop @ 1.5°/100'
6300.00	3.12	225.82	6292.12	-151.58	-156.00	217.52	1.50	-1.50	0.00	
	1 62	225.82	6392.03	-154.46	-158.97	221.65	1.50	-1.50	0.00	
6400.00	1.62									
	0.00 0.00	225.82 225.82	6500.00 6592.02	-155.52 -155.52	-160.06 -160.06	223.18 223.18	1.50	-1.50 0.00	0.00 0.00	Hold to TD



Ryan Directional Services Planning Report



Page:

3

Company: EP Energy Duchesne Co, UT Field:

Allison 4-19C5 Site: Well:

4-19C5 Wellpath: OH

Date: 9/18/2012

Time: 10:39:57

Co-ordinate(NE) Reference: Site: Allison 4-19C5, True North

Vertical (TVD) Reference:

SITE 6011.0

Section (VS) Reference: Well (0.00N,0.00E,225.82Azi) Plan #1 Plan:

Survey

Survey										
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment
ft	deg	deg	ft	ft	ft	ft	deg/100f	t deg/100f	t deg/100ft	
6700.00	0.00	225.82	6692.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
0700.00	0.00	225.02	0002.02	100.02	100.00	223.10	0.00	0.00	0.00	
6800.00	0.00	225.82	6792.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
6900.00	0.00	225.82	6892.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
7000.00	0.00	225.82	6992.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
7100.00	0.00	225.82	7092.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
7200.00	0.00	225.82	7192.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
7300.00	0.00	225.82	7292.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
7400.00	0.00	225.82	7392.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
7500.00	0.00	225.82	7492.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
7600.00	0.00	225.82	7592.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
7700.00	0.00	225.82	7692.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
7900 00	0.00	225.02	7702.02	155 50	160.06	222.40	0.00	0.00	0.00	
7800.00 7900.00	0.00 0.00	225.82 225.82	7792.02 7892.02	-155.52 -155.52	-160.06 -160.06	223.18 223.18	0.00 0.00	0.00 0.00	0.00 0.00	
8000.00	0.00	225.82	7992.02	-155.52	-160.06	223.16	0.00	0.00	0.00	
8100.00	0.00	225.82	8092.02	-155.52	-160.06	223.16	0.00	0.00	0.00	
8200.00	0.00	225.82	8192.02	-155.52	-160.06	223.16	0.00	0.00	0.00	
8200.00	0.00	225.62	0192.02	-133.32	-100.00	223.10	0.00	0.00	0.00	
8207.98	0.00	225.82	8200.00	-155.52	-160.06	223.18	0.00	0.00	0.00	8-3/4"
8300.00	0.00	225.82	8292.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
8400.00	0.00	225.82	8392.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
8500.00	0.00	225.82	8492.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
8600.00	0.00	225.82	8592.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
8700.00	0.00	225.82	8692.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
8800.00	0.00	225.82	8792.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
8900.00	0.00	225.82	8892.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
9000.00	0.00	225.82	8992.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
9100.00	0.00	225.82	9092.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
9200.00	0.00	225.82	9192.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
9300.00	0.00	225.82	9292.02	-155.52	-160.06	223.16	0.00	0.00	0.00	
9400.00	0.00	225.82	9392.02	-155.52	-160.06	223.16	0.00	0.00	0.00	
9500.00	0.00	225.82	9392.02	-155.52 -155.52	-160.06	223.18	0.00	0.00	0.00	
9600.00	0.00	225.82	9592.02	-155.52	-160.06	223.16	0.00	0.00	0.00	
3000.00	0.00	220.02	3332.02	-100.02	100.00	220.10	0.00	0.00	0.00	
9700.00	0.00	225.82	9692.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
9800.00	0.00	225.82	9792.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
9900.00	0.00	225.82	9892.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
10000.00	0.00	225.82	9992.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
10100.00	0.00	225.82	10092.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
10200.00	0.00	225.82	10192.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
10300.00	0.00	225.82	10292.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
10400.00	0.00	225.82	10392.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
10500.00	0.00	225.82	10492.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
10600.00	0.00	225.82	10592.02	-155.52	-160.06	223.18	0.00	0.00	0.00	
10707.98	0.00	225.82	10700.00	-155.52	-160.06	223.18	0.00	0.00	0.00	PBHL
10.01.00	0.00	220.02	.0700.00	100.02	.00.00		0.00	0.00	0.00	

Targets

Name	Description Dip. Dir	TVD	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	< Latitude: Deg Min Sec	> < Longitude> Deg Min Sec
PBHL -Plan hit target		10700.00	-155.52	-160.06	7243648.60	1923559.97	40 12 4.487 N	110 29 10.646 W



Ryan Directional Services Planning Report



Company:EP EnergyDate:9/18/2012Time:10:39:57Page:4Field:Duchesne Co, UTCo-ordinate(NE) Reference:Site: Allison 4-19C5, True North

Field:Duchesne Co, UTCo-ordinate(NE) Reference:Site: Allison 4-19C5, True NorthSite:Allison 4-19C5Vertical (TVD) Reference:SITE 6011.0Well:4-19C5Section (VS) Reference:Well (0.00N,0.00E,225.82Azi)

Wellpath: OH Plan: Plan #1

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2500.00	2500.00	0.000	0.000	12-1/4"
8207.98	8200.00	0.000	0.000	8-3/4"
10707.98	10700.00	0.000	0.000	4-1/2"

Annotation

MD ft	TVD ft	
3200.00	3200.00	KOP @ 1.5°/100'
3481.96	3481.70	Hold
6226.03	6218.30	Drop @ 1.5°/100'
6507.98	6500.00	Hold to TD

VIA FACSIMILE (801) 359-3940

August 28, 2012

Mr. John Rogers Utah Division of Oil, Gas & Mining 1594 West North Temple Salt Lake City, Utah 84116

RE: EP Energy E&P Company, L.P.'s Allison 4-19C5 Well

Section 19, Township 3 South, Range 5 West

Duchesne County, Utah

Dear Mr. Rogers,

Please be advised that EP Energy E&P Company, L.P. (EPE) has advised Club Oil & Gas, Ltd. of its need to obtain an exception location for its Allison 4-19C5 Well (the "Well") as the surface hole location of the Well is located 540' from the East line of Section 19, Township 3 South, Range 5 West and is therefore not in compliance with the applicable spacing rules.

Please be advised that Club Oil & Gas, Ltd., a working interest owner in Section 20, T3S, R5W, consents to and has no objections to EPE's exception location request for the Well. Should you have any questions, please contact me directly at

Sincerely,

CLUB OIL & GAS, LTD.

John V. Kestia

Vice President, Duncan Oil, Inc. On behalf of Club Oil & Gas, Ltd.

Cc: Lauren Williams

August 28, 2012

VIA FACSIMILE (801) 359-3940

Mr. John Rogers Utah Division of Oil, Gas & Mining 1594 West North Temple Salt Lake City, Utah 84116

RE: EP Energy E&P Company, L.P.'s Allison 4-19C5 Well

Section 19, Township 3 South, Range 5 West

Duchesne County, Utah

Dear Mr. Rogers,

Please be advised that EP Energy E&P Company, L.P. (EPE) has advised Raymond T. Duncan Oil of its need to obtain an exception location for its Allison 4-19C5 Well (the "Well") as the surface hole location of the Well is located 540' from the East line of Section 19, Township 3 South, Range 5 West and is therefore not in compliance with the applicable spacing rules.

Please be advised that Raymond T. Duncan Oil, a working interest owner in Section 20, T3S, R5W, consents to and has no objections to EPE's exception location request for the Well. Should you have any questions, please contact me directly at 303-757-3303.

Sincerely,

RAYMOND T. DUNCAN OIL PROPERTIES, LTD.

John V. Gestia

Vice President, Duncan Oil, Inc.

On behalf of Raymond T. Duncan Oil Properties, Ltd.

Cc: Lauren Williams

August 28, 2012

VIA FACSIMILE (801) 359-3940

Mr. John Rogers Utah Division of Oil, Gas & Mining 1594 West North Temple Salt Lake City, Utah 84116

RE: EP Energy E&P Company, L.P.'s Allison 4-19C5 Well

Section 19, Township 3 South, Range 5 West

Duchesne County, Utah

Dear Mr. Rogers,

Please be advised that EP Energy E&P Company, L.P. (EPE) has advised Vincent J. Duncan Trust of its need to obtain an exception location for its Allison 4-19C5 Well (the "Well") as the surface hole location of the Well is located 540' from the East line of Section 19, Township 3 South, Range 5 West and is therefore not in compliance with the applicable spacing rules.

Please be advised that Vincent J. Duncan Trust, a working interest owner in Section 20, T3S, R5W, consents to and has no objections to EPE's exception location request for the Well. Should you have any questions, please contact me directly at 303-757-3303.

Sincerely,

John N

VINCENT J. DUNCAN TRUST

Vice President, Duncan Oil, Inc.

On Cehalf of Vincent J. Duncan Trust

Cc: Lauren Williams

August 28, 2012

VIA FACSIMILE (801) 359-3940

Mr. John Rogers Utah Division of Oil, Gas & Mining 1594 West North Temple Salt Lake City, Utah 84116

RE: EP Energy E&P Company, L.P.'s Allison 4-19C5 Well

Section 19, Township 3 South, Range 5 West

Duchesne County, Utah

Dear Mr. Rogers,

Please be advised that EP Energy E&P Company, L.P. (EPE) has advised Walter Duncan Oil LLC of its need to obtain an exception location for its Allison 4-19C5 Well (the "Well") as the surface hole location of the Well is located 540' from the East line of Section 19, Township 3 South, Range 5 West and is therefore not in compliance with the applicable spacing rules.

Please be advised that Walter Duncan Oil LLC, a working interest owner in Section 20, T3S, R5W, consents to and has no objections to EPE's exception location request for the Well. Should you have any questions, please contact me directly at 303-757-3303.

Sincerely,

WALTER DUNCAN OIL LLC

John V. Cestia

Vice President, Duncan Oil, Inc.

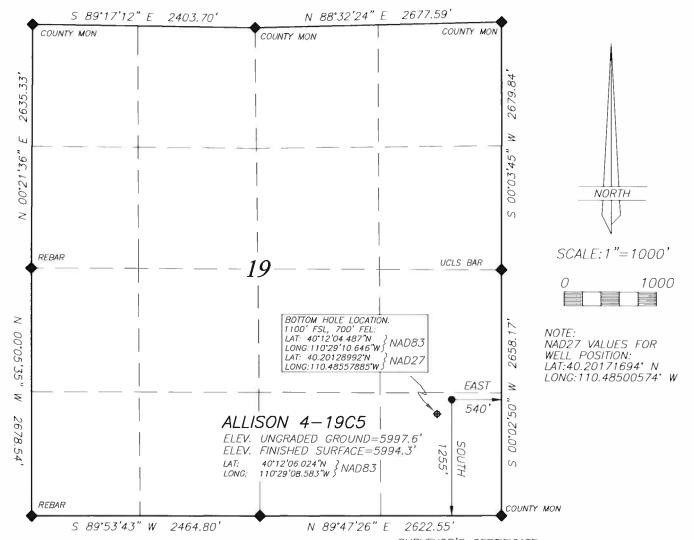
On behalf of Walter Duncan Oil LLC

Cc: Lauren Williams

EL PASO E & P COMPANY, L.P.

WELL LOCATION
ALLISON 4-19C5

LOCATED IN THE SE¼ OF THE SE¼ OF SECTION 19, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH



LEGEND AND NOTES

♦ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT 40°13'50.440"N AND LONG 110'29'48.258"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



JERRY D. ALLRED, REGISTERED LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST—P.O. BOX 975 DUCHESNE, UTAH 84021 (435) 738—5352

REV 22 AUG 2012 01-128-277

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Co	ompany;	EP EN	VERGY	E&P CO	<u>MPANY, I</u>	<u>Р.</u>		
Well Name	:	ALLI	SON 4-	19C5				
Api No:	43-013-514	66		Lease	TypeFE	E		
Section 19	Township_	03S	Range	<u>05W</u>	_County_	<u>DU</u>	CHESNE	
Drilling Cor	ntractor	PETE	<u>MARTI</u>	N DRLG	R	[G#_	BUCKET	
SPUDDE	D: Date	10/10/	2012	_				
	Time							
Drilling wi	ill Commend	:e:						
Reported by		WA	YNE G	ARNER				
Telephone #		(435	5) 823-14	490				
Date	10/10/2012	Sign	ed	CHD				

	STATE OF UTAH			FORM 9
ı	DEPARTMENT OF NATURAL RESOUF DIVISION OF OIL, GAS, AND M		i e	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	Y NOTICES AND REPORTS	S ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	posals to drill new wells, significantl reenter plugged wells, or to drill horiz n for such proposals.	y deep zontal l	en existing wells below aterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: ALLISON 4-19C5
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY,	LP.			9. API NUMBER: 43013514660000
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston,	TX, 77002 713 997		NE NUMBER: Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FSL 0540 FEL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SESE Section: 1	HIP, RANGE, MERIDIAN: 9 Township: 03.0S Range: 05.0W Me	ridian: l	J	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDIC	ATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE		LTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	□ c	HANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS		OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	RACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	P	LUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	□ R	ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	IDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	□ v	ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	□ s	I TA STATUS EXTENSION	APD EXTENSION
11/26/2012	WILDCAT WELL DETERMINATION		THER	OTHER:
			····	<u>'</u>
	completed operations. Clearly shown by the complete operation of the complete	-		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 27, 2012
NAME (PLEASE PRINT)	PHONE NUM	1BER	TITLE	
Maria S. Gomez	713 997-5038		Principal Regulatory Analys	t
SIGNATURE N/A			DATE 11/26/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY	ACT	ION	FO	RM
	701			

Operator:

EP Energy E&P Company, L.P.

Operator Account Number: N 3850

Address:

1001 Louisiana, Room 2730D

city Houston

zip 77002 state TX

Phone Number: <u>(713)</u> 997-5038

Well 1

API Number	Well Name		QQ Sec Twp		Twp	Rng County	
4301351500	Young 2-7C4		NWNW	7	38	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	S	pud Da	te		ity Assignment ffective Date
Α	99999	19824	1	1/7/201	2	111	28/2012

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351466	Allison 4-19C5		SESE 19 3S		5W	Duchesne	
Action Code	Current Entity Number	New Entity Number	S	pud Da	te		ity Assignment ffective Date
A	99999	18827	1	0/10/20	12	-114	26/130/3
Comments: OR	WS				CO	Mar Bust	
W	STC						

Well 3

API Number	Well Name		QQ Sec Twp		Rng County			
Action Code	Current Entity Number				Spud Date		L Entity Assignment Effective Date	
omments:				_		<u> </u>		

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

Maria S. Gomez

Name (Please Print

Signature

Principle Regulatory Analyst

11/21/2012

Title

Date

(5/2000)

NOV 2 8 2012

RECEIVED

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: ALLISON 4-19C5
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY,	LP.		9. API NUMBER: 43013514660000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston,	TX, 77002 713 997-	PHONE NUMBER: 5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FSL 0540 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 9 Township: 03.0S Range: 05.0W Mer	idian: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	l
I .	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show COMPLETED and On production		NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER:
NAME (PLEASE PRINT)	PHONE NUM		nalvat
Maria S. Gomez SIGNATURE N/A	713 997-5038	Principal Regulatory A DATE 4/5/2013	naiyst

CENTRAL DIVISION

1 General

Customer Information 1.1

Company	CENTRAL DIVISION
Representative	
Address	

1.2 **Well Information**

Well	ALLISON 4-19C5								
Project	ALTAMONT FIELD	Site	ALLISON 4-19C5						
Rig Name/No.	PRECISION DRILLING/404	Event	DRILLING LAND						
Start Date	11/21/2012	End Date	12/20/2012						
Spud Date/Time	11/25/2012	UWI	ALLISON 4-19C5						
Active Datum	KB @5,974.0ft (above Mean Sea Level)								
Afe	156902/46968 / ALLISON 4-19C5	156902/46968 / ALLISON 4-19C5							
No./Description									

2 Summary

2.1 **Operation Summary**

Date		ime ert-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
10/16/2012	6:00	6:00	24.00	DPDCOND	07		Р	850.0	SET 40' NCONDUCTOR, 90' MOUSE HOLE & 803' 13-3/8" CSG.
									WATER FLOW @ 300'
11/22/2012	6:00	6:00	24.00	MIRU	01		Р		MOVED 66% RIG, 10% RIGGED UP
11/23/2012	6:00	6:00	24.00	MIRU	01		Р	850.0	85% RIG MOVED, 15% RIGGED UP
11/24/2012	6:00	6:00	24.00	MIRU	01		Р	850.0	100% RIG MOVED, 60% RIGGED UP.
11/25/2012	6:00	23:30	17.50	MIRU	01		Р	850.0	100% RIGGED UP. RIG ON DAY RATE @ 23:30 HRS. 10/24/2012.
	23:30	4:00	4.50	CASCOND	28		Р	850.0	NU RISER & ROT HEAD. R/U FLOW LINE & GAS BUSTER.
	4:00	6:00	2.00	CASCOND	42		Р	850.0	INSTALL SHAKER SCREENS. BUILD SPUD MUD. RU CHOKE LINES. TEST CHOKE MANIFOLD TO 250 PSI / 3000 PSI W/ 10 MIN PER TEST.
11/26/2012	6:00	7:30	1.50	CASCOND	28		Р	803.0	FINISH N/U RISER, ROTATING HEAD, FLOW LINE.
	7:30	10:30	3.00	CASCOND	19		P	803.0	PJSM - R/U B&C QUICK TEST, SET TEST PLUG, TESTED ANNULAR, HCR VALVE / MANUAL VALVE, KILL LINE VALVES, TIW VALVE, MANUAL & HYD TD VALVES, DART VALVE TO 250 PSI / 3000 PSI W/ 10 MIN PER TEST. TESTED STAND PIPE & PUMP LINES TO 250 PSI / 4M PSI. TESTED CHOKE MANIFOLD TO 250 PSI / 3M PSI W/ 10 MIN PER TEST - NOTE: IN CHOKE MANIFOLD, HAD TWO VALVES LEAKED #12, #14 - REPAIRED BOTH VALES AND RE-TESETD BOTH 250 PSI LOW, 10 M PSI HIGH, AT 10 MINS, OK AFTER TESTING THE DIVERTER SYSTEM.
	10:30	13:00	2.50	CASCOND	14		Р	803.0	LAY OUT AND CALIPER BHA.
	13:00	18:00	5.00	CASCOND	14		Р	803.0	M/U BIT #1, ON HUNTING SFBH MM, P/U BHA TIH TO 687'.
	18:00	19:00	1.00	CASCOND	17		Р	803.0	SLIP AND CUT 9 WRAPS OF DRILL LINE.
	19:00	20:00	1.00	CASCOND	15		Р	803.0	C & C MUD. CIRCULATE FOR CSG TEST.
	20:00	23:00	3.00	CASCOND	32		Р	803.0	TEST 13 3/8" CSG TO 1,000 PSI FOR 30 MINS, OK. DRILL OUT SHOE TRACK.
	23:00	0:30	1.50	DRLSURF	07		Р	803.0	DRILL 803' - 908'.
	0:30	1:00	0.50	DRLSURF	60		N	908.0	ATTEMPT TO TAKE SURVEY. NES TOOL NOT PULSING.
	1:00	4:30	3.50	DRLSURF	60		N	908.0	PUMP SLUG & TOOH FOR FAILED SWD TOOL.
	4:30	6:00	1.50	DRLSURF	60		N	908.0	CHANGE OUT SWD TOOL.
11/27/2012	6:00	8:00	2.00	DRLSURF	60		N	908.0	M/U BHA & TIH.
	8:00	14:00	6.00	DRLSURF	07		Р	908.0	DRILL 908' - 1,395'
	14:00	14:30	0.50	DRLSURF	12		Р	1,395.0	SERVICE RIG & TDU

RECEIVED: Apr. 05, 2013 April 05, 2013 at 9:23 am

2.1 **Operation Summary (Continued)**

Date	Time		Duratio	Phase	Activit	Sub	OP	MD From	Operation
	Start-End		n		у		Code	(ft)	
			(hr)						
	14:30	18:00	3.50	DRLSURF	07		Р	1,395.0	DRILL 1,395' - 1,443' (HOOKLOAD SENSOR INOPERATIVE. DRL W/ DIFF PRESS & WO PASON)
	18:00	0:30	6.50	DRLSURF	07		Р	1,443.0	DRILL 1,443' - 1,575'.
	0:30	1:30	1.00	DRLSURF	45		N	1,575.0	CHANGE OUT DISCHARGE VALVES IN #2 PUMP.
	1:30	2:30	1.00	DRLSURF	07		Р	1,598.0	DRILL 1,575' - 1,598'.
	2:30	4:00	1.50	DRLSURF	45		N	1,598.0	CHANGE OUT SWAB & LINER IN #1 PUMP.
	4:00	6:00	2.00	DRLSURF	07		Р	1,598.0	DRILL 1,598' - 1,615'.
11/28/2012	6:00	10:00	4.00	DRLSURF	13		Р	1,615.0	BACK REAM OUT TO CSG SHOE. TOOH.
	10:00	12:30	2.50	DRLSURF	13		Р	1,615.0	CHANGE OUT BIT, M/M, TIH TO SHOE.
	12:30	14:00	1.50	DRLSURF	17		Р	1,615.0	SLIP & CUT DRILL LINE.
	14:00	15:30	1.50	DRLSURF	13		Р	1,615.0	TIH TO 1,615'.
	15:30	22:00	6.50	DRLSURF	07		Р	1,615.0	DRILL 1,615' - 1,932'.
	22:00	22:30	0.50	DRLSURF	52		N	1,932.0	LOST TOTAL RETURNS AT 1,932'. PUMPED 80 BBLS OF 44 PPB LCM PILLS, AND 20 BBLS OF 64 PPB LCM PILLS, NO RETURNS.
	22:30	23:00	0.50	DRLSURF	52		N	1,932.0	PULL 2 STANDS OFF BOTTOM.
	23:00	0:00	1.00	DRLSURF	52		N	1,932.0	PUMP & DISPLACED 20 BBLS OF 64 PPB LCM PILLS, NO RETURNS TO SURFACE.
	0:00	0:30	0.50	DRLSURF	52		N	1,932.0	ATTEMPT TO CIRC, PUMPED 62 BBLS, NO RETURNS.
	0:30	1:00	0.50	DRLSURF	52		N	1,932.0	TOOH TO SHOE 820'.
	1:00	2:30	1.50	DRLSURF	52		N	1,932.0	MIX 165 BBL 65 PPB LCM PILL, BUILD MUD VOLUME.
	2:30	3:30	1.00	DRLSURF	52		N	1,932.0	PUMP & DISPLACED 109 BBLS 65 PPB LCM PILL, TOTAL LOSSES SINCE TOTAL CIR LOSS AT 1,932' TO THE HOLE 679 BBLS, NO RETURNS.
	3:30	6:00	2.50	DRLSURF	52		N	1 932 0	MIX 165 BBL 65 PPB LCM PILL, BUILD MUD VOLUME.
11/29/2012	6:00	7:30	1.50	DRLSURF	52		N		PUMP & DISPLACE 100 BBLS OF 65 PPB LCM PILL. NO RETURNS.
	7:30	10:00	2.50	DRLSURF	52		N	1 932 0	TOOH & L/D NES SURVEY TOOL, CHECK M/M BIT, OK.
	10:00	11:30	1.50	DRLSURF	52		N	· · · · · · · · · · · · · · · · · · ·	TIH TO 1,740'.
	11:30	13:30	2.00	DRLSURF	52		N	1,932.0	BUILD 80 BBLS OF 80# / BBL STOPPIT LCM PILL - PUMPED SAME OUT END OF BIT AT 1,930' - LOST 25 BBLS WHILE PUMPING AND DISPLACING SAME.
	13:30	14:30	1.00	DRLSURF	52		N	1 932 0	PULL BACK UP INTO SHOE AT 820'.
	14:30	15:30	1.00	DRLSURF	52		N		ATTEMPTED TO PUMP DOWN DRILL STRING, STRING
				2.1200.1	, ,			.,002.0	PRESSURED UP TO 2,200 PSI.
	15:30	19:30	4.00	DRLSURF	52		N	1,932.0	TOOH - FOUND LCM IN SHOCK SUB AND TOP OF MUD MOTOR. L/O BOTH.
	19:30	22:30	3.00	DRLSURF	52		N	1,932.0	P/U MOTOR & SHOCK SUB. TIH TO SHOE. BREAK CIRC EVERY STANDS TO BOTTOM. GOOD RETURNS.
	22:30	1:30	3.00	DRLSURF	07		Р	1,932.0	DRILL 1,932' - 1,985'.
	1:30	3:00	1.50	DRLSURF	52		N		LOOSING MUD @ 160 BBLS/HR. P/U PUMP LCM & 3 - 65 PPB LCM PILLS. SHAKERS 75% BY PASSED.
	3:00	6:00	3.00	DRLSURF	07		Р	1,985.0	DRILL 1,985' - 2,039'.
11/30/2012	6:00	9:00	3.00	DRLSURF	07		Р		DRILL 2,039' - 2,097'.
	9:00	10:00	1.00	DRLSURF	15		Р	2,097.0	C & C MUD & BUILD VOLUME.
	10:00	11:00	1.00	DRLSURF	07		Р	2,097.0	DRILL 2,097' - 2,116'.
	11:00	11:30	0.50	DRLSURF	12		Р	2,116.0	SERVICE RIG & TDU.
	11:30	5:30	18.00	DRLSURF	07		Р	2,116.0	DRILL 2,116' - 2,393'.
	5:30	6:00	0.50	DRLSURF	15		Р	2,393.0	C&C MUD. BUILD SLUG.
12/1/2012	6:00	9:00	3.00	DRLSURF	13		Р	2,393.0	TOOH, C/O BIT, CHECK M/M, OK - M/U BIT #3.
	9:00	11:30	2.50	DRLSURF	13		Р	2,393.0	TIH BREAK CIR EVERY 900' - NOTE HAD 35K OVER PULL AT 2,020' ON TRIP OUT - SLICK TIH.
	11:30	13:00	1.50	DRLSURF	07		Р	2,393.0	DRILL 2,393' - 2,447'. LOSSES TO HOLE INCREASED F. 57 BPH TO 450 BPH.
	13:00	16:30	3.50	DRLSURF	15		Р	2.447 0	BUILD MUD VOLUME.

2.1 **Operation Summary (Continued)**

Date		Гіте	Duratio	Phase	Activit	Sub	OP	MD From	Operation
Date		rt-End	n (hr)	Tilase	y	Jub	Code	(ft)	Operation
	16:30	18:00	1.50	DRLSURF	15		Р	2,447.0	BRING AIR ON AT 200 SCFM WITH 400 GPM, ADJUSTED GPM
									TO 600 GPM, REDUCED AIR TO 150 SCFM TO BALANCE OUT FLOW.
	18:00	22:30	4.50	DRLSURF	07		Р	2,447.0	DRILL 2,447' - 2,770'. (PUMPING 612 GPM W/ 150 SCFM)
	22:30	23:00	0.50	DRLSURF	12		Р	2,770.0	SERVICE RIG & TDU.
	23:00	6:00	7.00	DRLSURF	07		Р	2,770.0	DRILL 2,770' - 3,084'. (PUMPING 612 GPM W/ 300 SCFM)
12/2/2012	6:00	14:00	8.00	DRLSURF	07		Р	3,084.0	DRILL 3,084' - 3,387 - LOST ALL RETURNS TO SURFACE - DRILLIED AHEAD AFTER INCREASING THE AIR FROM 300 SCFM TO 400 SCFM - DRILLED 3,387' - 3,399' WITH OUT RETURNS.
	14:00	16:00	2.00	DRLSURF	15		Р	3,399.0	BUILD VOLUME - PUMPED 576 GPM W/ 400 SCFM - 17 MINUTES INTO PUMPING HAD RETURNS COMING BACK TO SURFACE.
	16:00	16:30	0.50	DRLSURF	07		Р	3,399.0	DRILL 3,399' - 3,423'. (PUMPING 400 SCFM AIR).
	16:30	17:00	0.50	DRLSURF	12		Р	3,423.0	SERVICE RIG & TDU.
	17:00	22:30	5.50	DRLSURF	07		Р	3,423.0	DRILL 3,423' - 3,700'. (PUMPING 300 SCFM AIR).
	22:30	23:00	0.50	DRLSURF	15		Р	3,700.0	CIRC B/U. PUMP GELLED LCM SWEEP.
	23:00	3:00	4.00	DRLSURF	13		Р	3,700.0	WIPER TRIP 31 STDS TO SHOE @ 803'.
	3:00	4:30	1.50	DRLSURF	15		Р	3,700.0	ESTABLISH CIRC & CIRC SWEEP AROUND. (300 SCFM AIR).
	4:30	6:00	1.50	DRLSURF	13		Р	3,700.0	TOOH TO RUN 9-5/8" CSG.
12/3/2012	6:00	9:00	3.00	DRLSURF	13		Р	3,700.0	TOOH - L/D BHA, BIT #3.
	9:00	18:30	9.50	CASSURF	24		Р	3,700.0	R/U FRANKS CSG CREW & RUN 80 JT'S 9-5/8" 40# N-80 LTC CSG UNABLE TO CIRCULATE - LANDED FS @ 3,700" & FC @ 3,664' - R/U DOWN FRANKS CSG CREW.
	18:30	20:30	2.00	CASSURF	25		Р	3,700.0	PJSM - INSTALL CMT HEAD, PUMPED CAPACITY OF CSG WITH MUD (275 BBLS) UNABLE TO ESTABLISH CIRCULATION.
	20:30	23:00	2.50	CASSURF	25		Р	3,700.0	PJSA. RU HES CMT LINES. TESTED LINES TO 5M PSI. PUMPED 50 BBLS FW, 530 SX (299 BBL) 11 PPG 3.17 YLD 35/65 POZ G CMT & 195 SX (46 BBL) 14.2 PPG 1.33 YLD HALCO LIGHT PREM CMT.
	23:00	1:30	2.50	CASSURF	25		Р	3,700.0	RUN 1" PIPE TO 400'. PERFORMED TOP OUT #1. PUMPED 150 SX (30 BBL) 15.8 PPG 1.15 YLD PREM CMT + 2% CACL2. NO RETURNS TO SURFACE.
	1:30	4:30	3.00	CASSURF	26		Р	3,700.0	L/D 400' 1" PIPE. WOC. RD CMT HEAD. PREPAIR TO N/D DIVERTER STACK.
	4:30	6:00	1.50	CASSURF	25		Р	3,700.0	RUN 1" PIPE TO 400'. TO PERFORM TOP OUT #2.
12/4/2012	6:00	7:00	1.00	CASSURF	25		Р	3,700.0	PERFORM TOP OUT #2. PUMPED 450 SX (90 BBLS) 15.8 PPG 1.17 YLD PREM CMT + 3% CACL2. NO RETURNS.
	7:00	14:00	7.00	CASSURF	26		Р	3,700.0	L/D 400' 1" PIPE. WOC. PREPAIR TO N/D DIVERTER STACK.
	14:00	15:30	1.50	CASSURF	25		Р	3,700.0	PERFORM TOP OUT #3. PUMPED 200 SX (41 BBLS) 15.8 PPG 1.17 YLD PREM CMT + 2% CACL2. 32 BBLS RETURN TO SURFACE.
	15:30	16:30	1.00	CASSURF	26		Р	3,700.0	WOC. MONITOR FLUID LEVE, NO FALL BACK. R/D HES.
	16:30	19:00	2.50	CASSURF	29		Р	3,700.0	LIFT DIVERTER STACK. ROUGH CUT 9-5/8" CSG & L/D SAME. ND DIVERTER STACK. CUT OFF & REMOVE 13 3/8" x 13 3/8" 3M STARTER HEAD.
	19:00	23:30	4.50	CASSURF	27		Р	3,700.0	MAKE FINAL CUT ON 9-5/8" CSG. INSTALL 9-5/8" x 11" 5M SOW MULTI BOWL HEAD. TEST HEAD TO 2K PSI FOR 10 MINS.
	23:30	6:00	6.50	CASSURF	29		Р	3,700.0	PJSA. N/U 11" 10M BOPE.
12/5/2012	6:00	11:00	5.00	CASSURF	28		Р	3,700.0	FINISH N/U 11" 10 M BOPE. TESTED CHOKE MANIFOLD TO 250 PSI LOW, 10,000 PSI HIGH, ALL TEST RAN AT 10 MINUTES EACH.
	11:00	20:00	9.00	CASSURF	30		Р	3,700.0	PJSM. RU & TESTED BOPE TO 250PSI LOW, 5,000 PSI. TESTED ANNULAR 300/2500 PSI. ALL TESTED FOR 10 MINS.
	20:00	22:00	2.00	CASSURF	31		Р	3,700.0	TESTED CSG TO 2,500 PSI FOR 30 MINUTES.
	22:00	23:30	1.50	CASSURF	14		Р	3,700.0	PU RYAN DIR ASSEMBLY, TEST & INSTALL BIT.
	23:30	1:30	2.00	CASSURF	14		Р	3,700.0	PU 16 JTS OF 6 1/2" DC & TIH.

2.1 **Operation Summary (Continued)**

Date		ime rt-End	Duratio n	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	4:00	0.00	(hr)	OACOURE	12			0.700.0	TILL TO 0 0F4
	1:30	3:30	2.00	CASSURF	13		Р		TIH TO 3,651'.
	3:30	4:30	1.00	CASSURF	32		Р		DRILL OUT CMT FLOAT EQUIP, SHOE TRACK & 10'.
	4:30	5:00	0.50	CASSURF	15		Р	-,	CIRCULATE BOTTOMS UP.
	5:00	5:30	0.50	CASSURF	33		Р		FIT TO 15.4 PPG EMW AT 3,700'.
10/0/0010	5:30	6:00	0.50	DRLINT1	07		Р		DRILLED 3,710' - 3,715'.
12/6/2012	6:00	11:00	5.00	DRLINT1	07		Р		DRILLED 3,715' - 4,100'.
	11:00	11:30	0.50	DRLINT1	12		Р	,	SERVICE RIG & TDU.
	11:30	6:00	18.50	DRLINT1	07		Р		DRILLED 4,100' - 5,460'.
12/7/2012	6:00	16:00	10.00	DRLINT1	07		Р		DRILLED 5,460' - 5,959'.
	16:00	16:30	0.50	DRLINT1	12		P	· · · · · · · · · · · · · · · · · · ·	SERVICE RIG & TDU.
	16:30	6:00	13.50	DRLINT1	07		P		DRILLED 5,959' - 6,540'.
12/8/2012	6:00	16:00	10.00	DRLINT1	07		P		DRILLED 6,540' - 6,889'.
	16:00	16:30	0.50	DRLINT1	12		P	· · · · · · · · · · · · · · · · · · ·	SERVICE RIG & TDU.
	16:30	22:00	5.50	DRLINT1	07		Р	· · · · · · · · · · · · · · · · · · ·	DRILLED 6,889' - 6,996'.
	22:00	4:00	6.00	DRLINT1	13		Р	-,	POOH. LD MOTOR & BIT.
	4:00	6:00	2.00	DRLINT1	13		Р	-,	PU NEW MOTOR & BIT. TIH.
12/9/2012	6:00	8:30	2.50	DRLINT1	13		Р	· · · · · · · · · · · · · · · · · · ·	TIH, WASH DOWN LAST STD. NO FILL.
	8:30	11:30	3.00	DRLINT1	07		Р		DRILLED 6,996' - 7,171'.
	11:30	12:00	0.50	DRLINT1	12		Р	7,171.0	SERVICE RIG & TDU.
	12:00	22:30	10.50	DRLINT1	07		Р	· · · · · · · · · · · · · · · · · · ·	DRILLED 7,171' - 7,648'.
	22:30	23:30	1.00	DRLINT1	15		Р		CIRCULATE, MIX SLUG.
	23:30	6:00	6.50	DRLINT1	13		Р	7,648.0	РООН.
12/10/2012	6:00	6:30	0.50	DRLINT1	13		Р	7,648.0	POOH, CO MOTOR.
	6:30	8:30	2.00	DRLINT1	13		Р	7,648.0	TIH TO 3,613'.
	8:30	10:00	1.50	DRLINT1	17		Р	7,648.0	SLIP & CUT DRILL LINE.
	10:00	11:30	1.50	DRLINT1	13		Р	7,648.0	TIH, WASH DOWN LAST STD. NO FILL.
	11:30	15:00	3.50	DRLINT1	07		Р	7,648.0	DRILLED 7,648' - 7,824'.
	15:00	15:30	0.50	DRLINT1	12		Р	7,824.0	SERVICE RIG & TDU.
	15:30	6:00	14.50	DRLINT1	07		Р	8,480.0	DRILLED 7,824' - 8,480'.
12/11/2012	6:00	7:00	1.00	DRLPRD	07		Р	8,480.0	DRILLED 8,480' - 8,507'.
	7:00	9:00	2.00	DRLPRD	57		N	8,507.0	TROUBLE SHOOT MWD.
	9:00	10:00	1.00	DRLPRD	07		Р	8,507.0	DRILLED 8,507' - 8,546'. LOST 302 BBLS @ 8,513'. PUMPED 2- 15 BBL LCM SWEEPS @ 30PPB. WELL STATIC.
	10:00	11:00	1.00	DRLPRD	57		N	8,546.0	TROUBLE SHOOT MWD. CO RECEIVER BOX.
	11:00	14:30	3.50	DRLPRD	07		Р	8,546.0	DRILLED 8,546' - 8,663'.
	14:30	15:00	0.50	DRLPRD	12		Р	8,663.0	SERVICE RIG & TDU.
	15:00	6:00	15.00	DRLPRD	07		Р	8,663.0	DRILLED 8,663' - 9,060'.
12/12/2012	6:00	19:00	13.00	DRLPRD	07		Р	9,060.0	DRILLED 9,060' - 9,,408'. LOST 65 BBL TO FORMATION @ 9,367'.
	19:00	19:30	0.50	DRLPRD	12		Р	9,367.0	RIG SERVICE.
	19:30	6:00	10.50	DRLPRD	07		Р	9,367.0	DRILLED 9,367' - 9,565'.
12/13/2012	6:00	14:30	8.50	DRLPRD	07		Р		DRILLED 9,565' - 9,781'.
	14:30	15:00	0.50	DRLPRD	12		Р	· · · · · · · · · · · · · · · · · · ·	SERVICE RIG & TDU.
	15:00	6:00	15.00	DRLPRD	07		Р		DRILLED 9,781' - 10,045'.
12/14/2012	6:00	11:30	5.50	DRLPRD	07		Р		DRILLED 10,045' - 10,161'.
-	11:30	12:00	0.50	DRLPRD	12		Р	•	SERVICE RIG & TDU.
	12:00	14:00	2.00	DRLPRD	07		Р	· · · · · · · · · · · · · · · · · · ·	DRILLED 10,161' - 10,200'.
	14:00	15:00	1.00	EVLPRD	15		P		CBU. FLOW CHECK, WELL STATIC.
	15:00	1:30	10.50	EVLPRD	13		P	•	WIPER TRIP TO SHOE @ 3,700'.
	1:30	5:30	4.00	EVLPRD	15		P	· · · · · · · · · · · · · · · · · · ·	C & C MUD. MAX GAS 5,900 , MUD CUT 7.7 PPG.
	5:30	6:00	0.50	EVLPRD	13		Р		POOH FOR LOGS.
12/15/2012	6:00	13:30	7.50	EVLPRD	13		P	•	POOH & LD DIRECTIONAL TOOLS.

CENTRAL DIVISION

2.1 Operation Summary (Continued)

Date		Time art-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	13:30	23:30	10.00	EVLPRD	22		Р	10,200.0	RU & RUN TRIPPLE COMBO TO 10,200'. LOG UP TO 8,050'. WL STUCK @ 8,050'. ATTEMPT TO WORK FREE. PULL 6,650 # OVER LINE TENSION. HELD FOR 10 MINUTES. TOOL BROKE FREE. CONTINUE LOGGING FROM 8,050' - 3,700'. POOH. LD TRIPPLE COMBO TOOL. PU XRMI TOOL. RIH TO 5,726'. TOOL SET DOWN. LOG FROM 5,726' - 3,700'. POOH. RD WL.
	23:30	0:00	0.50	CASPRD1	12		Р	10,200.0	RIG SERVICE
	0:00	6:00	6.00	CASPRD1	13		Р	10,200.0	TRIPPING IN HOLE.
12/16/2012	6:00	7:30	1.50	CASPRD1	15		Р	10,200.0	C&C MUD. FLOW CHECK, WELL STATIC.
	7:30	19:30	12.00	CASPRD1	14		Р	10,200.0	POOH LAYING DOWN 41/2" DP & BHA. PULL WEAR BUSHING.
	19:30	6:00	10.50	CASPRD1	24		Р	10,200.0	PJSM. RU & RUN 116 JTS 5.5" 17# HC-P110 LTC PRODUCTION CSG TO 4,528". CBU EVERY 3,000". REDUCE MW TO 9.8 PPG. UTILIZED TORQUE TURN & FILL UP TOOL.
12/17/2012	6:00	18:00	12.00	CASPRD1	24		Р	10,200.0	RAN 251 JTS 5.5" 17# HC-P110 LTC PROD CSG TO 10,200'. CBU EVERY 3,000'. REDUCE MW TO 9.6 PPG. UTILIZED TORQUE TURN & FILL UP TOOL. MARKER JTS SET @ 8,985'- 7,963' - 7,970'.
	18:00	19:00	1.00	CASPRD1	15		Р		CIRCULATE 5-1/2" CASING ON BOTTOM @ 10,200'.
	19:00	23:30	4.50	CASPRD1	25		Р	10,200.0	RIG UP HALLIBURTON. TESTED LINES TO 5M. PUMPED 10BBL WTR, 20 BBLS 10PPG TUNED SPACER, 764 SKS (284 BBLS) 12.3 PPG 2.09 YIELD EXPANDACEM LEAD CMT. 400 SKS 1.61 YD (114 BBLS) 12.3PPG PREMIUM TAIL CEMENT. WASHED LINES. DROPPED PLUG & DISPLACED WITH 235 BBLS CLAY FIX WTR. BUMPED PLUG TO 2,497 PSI @ 22:26 HRS. FLOATS HELD. BLED BACK 2BBL. LOST 61 BBLS DURING DISPLACEMENT. RD HES. EST TOC 4,437'.
	23:30	0:00	0.50	CASPRD1	27		Р	10,200.0	SET CASING SLIPS WITH 110K STRING WEIGHT.
	0:00	5:30	5.50	CASPRD1	29		Р		ND BOPE.
	5:30	6:00	0.50	CASPRD1	27		Р	10,200.0	INSTALLING TUBING HEAD.
12/18/2012	6:00	10:00	4.00	CASPRD1	27		Р		MAKE FINAL CUT ON CSG. INSTALL 11" x 7-1/16" 10M TBG HEAD & TEST TO 5,000 PSI FOR 10 MIN. INSTALL FRAC VALVE. RIG REALEASED @ 10:00 HRS 12/17/12
	10:00	6:00	20.00	RDMO	02		Р	10,200.0	RIG DOWN.

CENTRAL DIVISION

1 General

1.1 **Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 **Well Information**

Well	ALLISON 4-19C5								
Project	ALTAMONT FIELD	Site	ALLISON 4-19C5						
Rig Name/No.		Event	COMPLETION LAND						
Start Date	12/26/2012	End Date	3/27/2013						
Spud Date/Time	11/25/2012	UWI	ALLISON 4-19C5						
Active Datum	KB @5,974.0ft (above Mean Sea Level))							
Afe	156902/46968 / ALLISON 4-19C5	156902/46968 / ALLISON 4-19C5							
No./Description									

2 Summary

2.1 **Operation Summary**

Date	1	Гіте	Duratio	Phase	Activit	Sub	OP	MD From	Operation
	Sta	art-End	n (hr)		у		Code	(ft)	
12/28/2012	6:00	7:30	1.50	MIRU	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON ROADING RIG. FILL OUT & REVIEW JSA
	7:30	13:30	6.00	MIRU	01		Р		ROAD RIG FROM THE 3-21B4 TO LOCATION & RIG UP, CHAINING UP RIG AS NEEDED
	13:30	16:00	2.50	WBP	18		Р		RU WIRELINE TRUCK. RIH W/ 4.5"OD GAUGE RING & TAG PBTD @ 10105". POOH & RD WIRELINE TRUCK
	16:00	17:30	1.50	WBP	16		Р		ND FRAC VALVE. NU BOP. RU WORK FLOOR. SDFN
12/29/2012	6:00	7:30	1.50	WBP	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON BODY POSITION WHILE LIFTING. FILL OUT & REVIEW JSA
	7:30	15:00	7.50	WBP	39		Р		MEASURE PICKUP & TIH W/ 4-3/4"OD BIT, BIT SUB & 318 JTS 2-7/8"EUE TBG. TAG UP @ 10110'. POOH W/ 11 JTS TBG.
	15:00	16:30	1.50	WBP	18		Р		RU PMP & PUMP LINES. RU POWER SWIVEL. SDFN
12/30/2012	6:00	7:30	1.50	WBP	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON COLD WEATHER OPERATIONS. FILL OUT & REVIEW JSA
	7:30	12:00	4.50	WBP	10		Р		TIH W/ 10 JTS 2-7/8"EUE TBG. RU POWER SWIVEL. BREAK REVERSE CIRCULATION. CLEAN OUT FROM 10110' TO 11017'. CIRCULATE HOLE W/ 262 BBLS 2% KCL WTR . RD POWER SWIVEL.
	12:00	17:30	5.50	WBP	24		Р		TOOH LAYING DOWN 319 JTS 2-7/8"EUE TBG, BIT SUB & BIT. SDFN
12/31/2012	6:00	6:00	24.00						SHUT DOWN FOR SUNDAY
1/1/2013	6:00	7:30	1.50	WBP	28		Р		TRAVEL TO LOCATION. HOLDSAFETY MEETING ON RIGGING DOWN RIG. FILL OUT & REVIEW JSA
	7:30	10:00	2.50	RDMO	02		Р		RD RIG & RACK OUT EQUIPMENT.
	10:00	16:30	6.50	WBP	18		Р		RIH & RUN BOND LOG WHILE HOLDING 3000 PSI ON CSG, FROM PBTD 10105' WLM TO 3000'. FOUND CMT TOP @ 4050'. RD WIRELINE TRUCK. SDFN
1/2/2013	6:00	6:00	24.00				Р		SHUT DOWN FOR NEW YEARS HOLIDAY
1/3/2013	6:00	7:30	1.50	WBP	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON CRANE SAFETY. FILL OUT & REVIEW JSA
	7:30	2:00	18.50	WBP	18		Р		MOVE IN & SET UP POSEIDON FRAC TANK
1/4/2013	6:00	7:30	1.50	WBP	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PRESSURE TESTING CSG. FILL OUT & REVIEW JSA

Sundry Number: 36475 API Well Number: 43013514660000

CENTRAL DIVISION

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Date		Fime	Duratio	Phase	Activit	Sub	OP	MD From	Operation
	Sta	rt-End	n (ba)		У		Code	(ft)	
	7:30	15:00	(hr) 7.50	WBP	18		P		RU HOT OILER & TEST UNIT. PRESSURE TEST CSG TO 8000 PSI.
	7.00	10.00	1.00	115.	10		·		LOST 400 PSI IN 30 MINUTES. BLEED PRESSURE OFF WELL. RD
									PRESSURE TEST EQUIPMENT.
1/5/2013	6:00	7:30	1.50	WBP	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WIRELINE
17072010	0.00								SAFET. FILL OUT & REVIEW JSA.
	7:30	11:00	3.50	WBP	27		Р		MIRU WIRELINE EQUIPMENT. RIH & SET CBP @ 10105'. POOH W/
									WIRELINE.
	11:00	13:00	2.00	WBP	18		Р		RU HOT OILER & TEST UNIT. PRESSURE TEST CSG. TESTED
									GOOD. RD TEST EQUIPMENT.
	13:00	17:00	4.00	STG01	21		Р		RU WIRELINE UNIT. RIH & PERF STAGE 1 PERFORATIONS 9845'
									TO 1088' UNDER 1000 PSI. PRESSURE DROPPED TO 600 PSI
									WHILE PERFORATING. RD WIRELINE EQUIPMENT. SDFN
1/6/2013	6:00	7:30	1.50	STG01	28		Р		TRAVEL MTO LOCATION. HOLD SAFETY MEETING ON RIGGING
									UP ISOLATION TOOL. FILL OUT & REVIEW JSA
	7:30	11:00	3.50	STG01	16		Р		RU & TEST CSG ISOLATION TOOL.
	11:00	18:00	7.00	STG01	18		Р		MIX ACID TANKS & HEAT FRAC WTR.
1/7/2013	6:00	7:30	1.50	MIRU	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON RIGGING
									UP & FRAC SAFETY. FILL OUT & REVIEW JSA
	7:30	17:00	9.50	MIRU	01		Р		MOVE IN & RU FRAC EQUIPMENT
	17:00	20:00	3.00	STG01	35		Р		PRESSURE TEST LINES TO 9448 PSI. SICP 260 PSI. BREAK
									DOWN STAGE 1 PERFS @ 2888 PSI, 11 BPM . TREATED
									PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 10.5 BPM,
									MAX RATE 11 BPM, AVG PRESS 2914 PSI . MAX PRESS 2977
									PSI. I.S.I.P 2936 PSI F.G72. 5 MINUTE 2838 PSI, 10 MINUTE
									2783 PSI, 15 MINUTE 2748 PSI . PUMPED 3000 LBS 100 MESH
									SAND IN 1/2 PPG STAGE AND 11501 LBS TEMPERED LC 20/40
									SAND IN 1PPG, 1.5 PPG, 2PPG, 3PPG, 3.5 PPG & 4PPG
									STAGES. AVG RATE 68.7 BPM, MAX RATE 74.6 BPM. AVG
									PRESS 4413 PSI, MAX PRESS 4791 PSI. I.S.I.P. 3173 PSI F.G.
									.75. 5 MIN 2987 PSI. 10 MIN2957 PSI. SHUT WELL IN. 2592
	20:00	23:00	3.00	STG02	21		Р		BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	20.00	23.00	3.00	31602	21		P		EQALIZE LUBRICATOR. RIH & SET CBP @ 9842'. PERFORATE STAGE 2 PERFORATIONS 9575' TO 9576', USING 3-1/8" HSC
									GUNS, 3 JSPF, 120 DEGREE PHASING. PRESSURE DROPPED
									FROM 2400 PSI TO 2100 PSI WHILE PERFORATING. SDFN
1/8/2013	6:00	7:30	1.50	STG02	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC
									SAFETY. FILL OUT & REVIEW JSA.
	7:30	10:30	3.00	STG02	35		Р		PRESSURE TEST LINES TO 9436 PSI. SICP 2328 PSI. BREAK
	1.100								DOWN STAGE 2 PERFS @ 2806 PSI, 11 BPM . TREATED
									PERFS W/ 5000 GALS 15% HCL ACID. I.S.I.P 3024 PSI F.G74. 5
									MINUTE 2770 PSI, 10 MINUTE 2740 PSI, 15 MINUTE 2716 PSI.
									PUMPED 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE AND
									120,000 LBS TEMPERED LC 20/40 SAND IN 1PPG, 1.5 PPG,
									2PPG, 3PPG, 3.5 PPG & 4PPG STAGES. AVG RATE 70.6 BPM,
									MAX RATE 71 BPM. AVG PRESS 4600 PSI, MAX PRESS 5158
									PSI. I.S.I.P. 3294 PSI F.G77. 5 MIN 3154 PSI. 10 MIN 3095 PSI,
									15 MIN 3070 PSI. SHUT WELL IN. 3135 BBLS TO RECOVER
	10.00	40.00	0.00	07000	0.1				TURNED WELL OVER TO WIRELINE.
	10:30	12:30	2.00	STG03	21		Р		PRESSURE TEST LUBRICATOR TO 3000 PSI. RIH & SET CBP @
									9563'. PERFORATE STAGE 3 PERFORATIONS 9325' TO 9553',
									USING 3-1/8" HSC GUNS, 3 JSPF, 120 DEGREE PHASING. LOST 200 PSI WHILE PERFORATING
									200 FOI WHILE PERFURATING

Sundry Number: 36475 API Well Number: 43013514660000

CENTRAL DIVISION

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	12:30 14:30	2.00	STG03	35		Р		PRESSURE TEST LINES TO 9622 PSI. SICP 2637 PSI. BREAK DOWN STAGE 3 PERFS @ 3355 PSI, 11 BPM. TREATED PERFS W/ 5000 GALS 15% HCL ACID. I.S.I.P 3209 PSI F.G77. 5 MINUTE 2625 PSI, 10 MINUTE 2606 PSI, 15 MINUTE 2589 PSI. PUMPED 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 115,000 LBS TEMPERED LC 20/40 SAND IN 1PPG, 1.5 PPG, 2PPG, 3PPG, 3.5 PPG & 4PPG STAGES. AVG RATE 70 BPM, MAX RATE 74 BPM. AVG PRESS 4598 PSI, MAX PRESS6131 PSI. I.S.I.P. 3338 PSI F.G78. 5 MIN 3127 PSI. 10 MIN 30605 PSI, 15 MIN 3017 PSI. SHUT WELL IN. 2499 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	14:30 16:00	1.50	STG04	21		Р		PRESSURE TEST LUBRICATOR TO 3000 PSI. RIH & SET CBP @ 9318'. PERFORATE STAGE 4 PERFORATIONS 9049' TO 9302', USING 3-1/8" HSC GUNS, 3 JSPF, 120 DEGREE PHASING. LOST 475 PSI WHILE PERFORATING
	16:00 17:30	1.50	STG04	35		P		PRESSURE TEST LINES TO 9300 PSI. SICP 1909 PSI. BREAK DOWN STAGE 4 PERFS @ 2935 PSI, 11 BPM. TREATED PERFS W/ 5000 GALS 15% HCL ACID. I.S.I.P 2862 PSI F.G74. 5 MINUTE 2482 PSI, 10 MINUTE 2374 PSI, 15 MINUTE 2279 PSI. PUMPED 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 123,000 LBS TEMPERED LC 20/40 SAND IN 1PPG, 1.5 PPG, 2PPG, 3PPG, 3.5 PPG & 4PPG STAGES. AVG RATE 69.6 BPM, MAX RATE 72.7 BPM. AVG PRESS 4258 PSI, MAX PRESS 5836 PSI. I.S.I.P. 3555 PSI F.G82. 5 MIN 3231 PSI. 10 MIN 3184 PSI, 15 MIN 3147 PSI. SHUT WELL IN. 2458 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	17:30 17:30	0.00	STG05	21		Р		PRESSURE TEST LUBRICATOR TO 3000 PSI. RIH & SET CBP @ 9036'. PERFORATE STAGE 5 PERFORATIONS 8790' TO 9020', USING 3-1/8" HSC GUNS, 3 JSPF, 120 DEGREE PHASING. LOST 200 PSI WHILE PERFORATING
	17:30 20:00	2.50	STG05					PRESSURE TEST LINES TO 9667 PSI. SICP 2297 PSI. BREAK DOWN STAGE 5 PERFS @ 3113 PSI, 11 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID. I.S.I.P 2515 PSI F.G71. 5 MINUTE 2134 PSI, 10 MINUTE 1960 PSI, 15 MINUTE 1907 PSI . PUMPED 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 120,000 LBS TEMPERED LC 20/40 SAND IN 1PPG, 1.5 PPG, 2PPG, 3PPG, 3.5 PPG & 4PPG STAGES. AVG RATE61 BPM, MAX RATE 71 BPM. AVG PRESS 5962 PSI, MAX PRESS 5982 PSI. I.S.I.P. 3183 PSI F.G79. 5 MIN 2959 PSI. 10 MIN 2913 PSI, 15 MIN 2863 PSI. SHUT WELL IN. 2372 BBLS TO RECOVER.SDFN
1/9/2013	6:00 7:30	1.50	STG06	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA
	7:30 9:00	1.50	STG06	21		Р		PRESSURE TEST LUBRICATOR TO 3000 PSI. RIH & SET CBP @ 8783'. PERFORATE STAGE 6 PERFORATIONS 8580' TO 8773', USING 3-1/8" HSC GUNS, 3 JSPF, 120 DEGREE PHASING. LOST 500 PSI WHILE PERFORATING

Date	т	ime	Duratio	Phase	Activit	Sub	ОР	MD From	Operation
Date		rt-End	n (hr)	rilase	y	Gub	Code	(ft)	Operation
	9:00	10:30	1.50	STG06	35		P		PRESSURE TEST LINES TO 9300 PSI. SICP 1485 PSI. BREAK DOWN STAGE 6 PERFS @ 2471 PSI, 11 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID. I.S.I.P 2316 PSI F.G70. 5 MINUTE 1170 PSI, 10 MINUTE 924 PSI, 15 MINUTE 549 PSI . PUMPED 4000 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 110,000 LBS TEMPERED LC 20/40 SAND IN 1PPG, 1.5 PPG, 2PPG, 3PPG, 3.5 PPG & 4PPG STAGES. AVG RATE 64.5 BPM, MAX RATE 68.7 BPM. AVG PRESS 3883 PSI, MAX PRESS 4821 PSI. I.S.I.P. 2165 PSI F.G68. 5 MIN 1562 PSI. 10 MIN 1368 PSI, 15 MIN 1270 PSI. SHUT WELL IN. 2334 BBLS TO RECOVER.TURN WELL OVER TO WIRELINE
	10:30	15:00	4.50	STG07	21		Р		WHILE MAKING UP LUBRICATOR CABLE HEAD FAILED. LD LUBRICATOR & PERF GUN & REHEAD. PU LUBRICATOR & PERF GUN. PRESSURE TEST LUBRICATOR TO 3000 PSI. RIH & SET CBP @ 8575'. PERFORATE STAGE 7 PERFORATIONS 8369' TO 8560', USING 3-1/8" HSC GUNS, 3 JSPF, 120 DEGREE PHASING. LOST 200 PSI WHILE PERFORATING
	15:00	16:30	1.50	STG07	35		P		PRESSURE TEST LINES TO 9693 PSI. SICP 958 PSI. BREAK DOWN STAGE 7 PERFS @ 1641 PSI, 11 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID. I.S.I.P 1670 PSI F.G63. 5 MINUTE 1314 PSI, 10 MINUTE 1110 PSI, 15 MINUTE 1040 PSI . PUMPED 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 110,000 LBS PREMIUM 20/40 SAND IN 1PPG, 1.5 PPG, 2PPG, 3PPG, 3.5 PPG & 4PPG STAGES. AVG RATE 65 BPM, MAX RATE 66 BPM. AVG PRESS 3168 PSI, MAX PRESS 4207 PSI. I.S.I.P. 2110 PSI F.G68. 5 MIN 1808 PSI. 10 MIN 1714 PSI, 15 MIN 1643 PSI. SHUT WELL IN. 2208 BBLS TO RECOVER.TURN WELL OVER TO WIRELINE
	16:30	18:00	1.50	STG08	21		Р		PRESSURE TEST LUBRICATOR TO 3000 PSI. RIH & SET CBP @ 8360'. PERFORATE STAGE 8 PERFORATIONS 8158' TO 8344', USING 3-1/8" HSC GUNS, 3 JSPF, 120 DEGREE PHASING. LOST 450 PSI WHILE PERFORATING
	18:00	18:00	0.00	STG08	35		Р		PRESSURE TEST LINES TO 9300 PSI. SICP 950 PSI. BREAK DOWN STAGE 8 PERFS @ 2203 PSI, 11 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID. I.S.I.P 1927 PSI F.G66 MINUTE 1448 PSI, 10 MINUTE 1265 PSI, 15 MINUTE 1182 PSI . DURING FRAC LOST SUCTION @ END OF 2 PPG STAGE. FLUSHED TO TOP PERF W/ 10PPG BRINE WTR. TTL OF 50,000 3 IN PERFS. SDFN
1/10/2013	6:30	7:30	1.00	STG08	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC SAFETY. FILL OUT & REVIEW JSA.
	7:30	14:30	7.00	STG08	18		P		CONTINUE TO HAUL & HEAT FRAC WTR
	14:30	15:00	0.50	STG08	35		Р		REFRAC STAGE 8 PERFORATIONS. PUMPED 3000 TTL POUNDS 100 MESH SAND IN 1/2 PPG STAGE & 110000 POUNDS PREMIUM 20/40 SAND IN 1 PPG, 2 PPG, 3 PPG, 3-1/2 PPG & 4 PPG STAGES. AVG RATE 51 BPM. MAX RATE 65 BPM. AVG PSI 2998 PSI. MAX PSI 4914 PSI. ISIP 2197 PSI. FG .70. 5 MINUTE 900 PSI. 10 MINUTE 631PSI. 15 MINUTE 533 PSI. SHUT WELL IN
	15:00	18:00	3.00	RDMO	02		Р		RD FRAC EQUIPMENT & CSG ISOLATION TOOL. SDFN
1/11/2013	6:00	7:30	1.50	MIRU	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON RIGGING UP COIL TBG. FILL OUT & REVIEW JSA
	7:30	11:30	4.00	MIRU	10		Р		RU COIL TBG UNIT. LOAD COIL W/ HOT WTR. MU & TEST TOOLS.
	11:30	3:30	16.00	СТИ	10		Р		RIH & DRILL 7 CBP'S. CO TO PBTD. USED N2 ON 1st & 3rd PLUG DRILLED. WELL CIRCULATED WELL ON REST OF JOB. TAG PBTD & CIRCULATE CLEAN. POOH W/ COIL TBG TOOLS
	3:30	6:00	2.50	RDMO	02		Р		RD COIL TBG UNIT.

Date		ime rt-End	Duratio n	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
1/12/2013	6:00	6:30	(hr) 0.50	FB	28		Р		HOLD SAFETY MEETING ON CHANGING CHOKES. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		Р		OPEN WELL TO FLOWBACK TANK. FLOW WELL 6HRS THEN TURNED TO PRODUCTION FACILITY. RECOVERED 361 BBLS WTR, 76 MCF GAS FLOWING @950 PSI ON A 14/64" CHOKE.
1/13/2013	6:00	6:30	0.50	FB	28		Р		HOLD SAFETY MEETING ON SLIPS TRIPS & FALLS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		Р		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 285 MCF GAS, 187 BBLS OIL & 390 BBLS WTR FLOWING @ 1050 PSI ON A 14/64" CHOKE
1/14/2013	6:00	6:30	0.50	FB	19		Р		HOLD SAFETY MEETING ON TRIP HAZARDS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		Р		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 316 MCF GAS, 72 BBLS OIL & 342 BBLS WTR FLOWING @ 1000 PSI ON A 14/64" CHOKE.
1/15/2013	6:00	7:30	1.50	WBREMD	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA
	7:30	14:00	6.50	WLWORK	27		Р		RU WIRELINE TRUCK. THAW BOP.RIH W/ 4.65 OD GUAGE RING TO 8157'. POOH W/ GUAGE RING. RIH & SET PKR @ 8090'. POOH W/ SETTING TOOL & RD WIRELINE UNIT
	14:00	19:00	5.00	MIRU	01		Р		MI RU RIG & EQUIPMENT. SPOT CATWALK & PIPE RACKS. MOVE TBG TO PIPE RACKS. SDFN
1/16/2013	6:00	7:30	1.50	WBREMD	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PICKING UP TBG. FILL OUT & REVIEW JSA.
	7:30	14:00	6.50	WBREMD	24		Р		RIHW/ ON/OFF TOOL & 255 JTS 2-7/8"EUE TBG. TAG PKR SET @ 8090' WLM. RELEASE ON OFF TOOL.
	14:00	16:30	2.50	WBREMD	06		Р		CIRCULATE W/ 200 BBLS PKR FLUID
	16:30	19:30	3.00	WBREMD	16		Р		ND BOP. NU WELLHEAD & PLUMB FLOW LINES. TEST WELLHEAD VOID.
	19:30	21:00	1.50	WBREMD	18		Р		PRESSURE TEST CSG TO 1000 PSI. TESTED GOOD. PUMP OUT PLUG @ 2300 PSI. TURN WELL TO PRODUCTION FACILITY.
	21:00	6:00	9.00	FB	19		Р		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 36 MCF GAS, 44 BBLS OIL & 142 BBLS WTR, FLOWING @ 1250 PSI ON A 14/64" CHOKE
1/17/2013	6:00	6:30	0.50	FB	28		Р		HOLD SAFETY MEETING ON WORKING IN EXTREME COLD WEATHER
	6:30	6:00	23.50	FB	19		Р		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 412 MCF GAS, 118 BBLS OIL & 308 BBLS WTR, FLOWING @ 1100 PSI ON A 14/64" CHOKE
1/18/2013	6:00	6:30	0.50	FB	28		Р		HOLD SAFETY MEETING ON GUAGING TANKS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		Р		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 328 MCF GAS, 111 BBLS OIL & 287 BBLS WTR, FLOWING @1050 PSI ON A 14/64" CHOKE
1/19/2013	6:00	6:30	0.50	FB	28		Р		HOLD SAFETY MEETING ON CHANGING CHOKE. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		Р		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 367 MCF GAS, 200 BBLS OIL & 359 BBLS WTR, FLOWING @ 1000 PSI ON A 16/64" CHOKE
1/20/2013	6:00	6:30	0.50	FB	28		Р		HOLD SAFETY MEETING ON SLIPS TRIPS & FALLS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		Р		FLOW WELL TO PRODUCTION FACILITY. RECOVERED403 MCF GAS, 144 BBLS OIL & 373 BBLS WTR, FLOWING @ 950 PSI ON A 16/64" CHOKE
3/26/2013	6:00	7:30	1.50	MIRU	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON ROADING RIG. FILL OUT & REVIEW JSA

Sundry Number: 36475 API Well Number: 43013514660000

CENTRAL DIVISION

Date		ime rt-End	Duratio n	Phase	Activit	Sub	OP Code	MD From (ft)	Operation
			(hr)						
	7:30	10:00	2.50	MIRU	01		Р		MOVE RIG FROM WILSON 1-19C5 TO LOCATION & RIG UP.
	10:00	11:00	1.00	PRDHEQ	06		Р		PUMP 60 BBLS 2% KCL WTR DOWN TBG TO KILL WELL.
	11:00	12:00	1.00	PRDHEQ	16		Р		ND WELL HEAD. NU BOP
	12:00	18:00	6.00	PRDHEQ	39		Р		RELEASE PKR @ 8090' & TOOH W/ TBG & PKR. TALLY IN HOLE W/ 2-7/8"EUE BULL PLUG, 2 JTS 2-7/8"EUE TBG, 3-1/2"ODPBGA, SEAT NIPPLE, 4' X 2-7/8"EUE TBG, TAC & 168 jts 2-7/8"EUE TBG. SDFN
3/27/2013	6:00	7:30	1.50	INARTLT	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PICKING UP TBG. FILL OUT & REVIEW JSA
	7:30	11:30	4.00	INARTLT	24		Р		CONTINUE TIH W/ 125 JTS 2-7/8"EUE TBG, KILLING TBG AS NEEDED. TAG PBTD @ 10105'. LD 1 JT TBG. PU 16' PUP JTS.
	11:30	16:30	5.00	SL	18		Р		RU SLICKLINE UNIT. RIH & LOG DOWN FROM 70650' TO BULL PLUG @ 10082' WLM. LOG OUT OF HOLE TO 7650'. RD WIRELINE UNIT. DOWNLOAD INFORMATION.
	16:30	18:00	1.50	INARTLT	24		Р		LD 78 JTS 2-1/8"EUE TBG. ATTEMPT TO SET TAC @ 7388'. UNABLE TO SET TAC. MOVE UP HOLE 30'. UNABLE TO SET TAC. SDFN
3/28/2013	6:00	7:30	1.50	INARTLT	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON SETTING TAC. FILL OUT & REVIEW JSA
	7:30	9:00	1.50	INARTLT	18		Р		PUMP 20 BBLS 2% KCL WTR DOWN CSG. SET TAC @ 7388' IN 25K TENSION. ND BOP
	9:00	12:00	3.00	INARTLT	16		Р		LAND TBG. PLUMB WELLHEAD & FLOWLINES. FLUSH TBG W/ 50 BBLS 2% KCL WTR
	12:00	17:30	5.50	INARTLT	24		Р		PU & PRIME 2' X 2-1/2"RHBC PUMP. TIH W/ PUMP, 11 1-1/2" WEIGHT RODS, 80 3/4" RODS, 99 7/8" RODS & 21 1" RODS. IT WAS DISCOVERED THAT LONG DIP TUBE HAD NOT BEEN RUN ON PUMP. POOH W/ RODS & PUMP. SDFN
3/29/2013	6:00	7:30	1.50	INARTLT	28		Р		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON TRIPPING RODS. FILL OUT & REVIEW JSA.
	7:30	11:30	4.00	INARTLT	39		Р		INSTALL LONG DIP TUBE ON PUMP. TIH W/ 2-1/2" X 2" PUMP, 12 1-1/5"WEIGHT RODS, 79 3/4" RODS, 99 7/8" RODS & 107 1" RODS. SPACE OUT W/ 4' & 2' X 1" PONY RODS & 40 POLISH ROD. FILL TBG W/ 20 BBLS 2% KCL WTR. STROKE TEST PUMP TO 1000 PSI. TESTED GOOD
	11:30	12:30	1.00	RDMO	02		Р		RD RIG.
	12:30	16:30	4.00	INARTLT	18		Р		SLIDE PUMPING UNIT. HANG ROD STRING. START WELL PUMPING. PUMP GAS LOCKED. LOWER ROD STRING TO TAG ON DOWN STROKE. MONITER WELL

SHL 1255 FSL, 540 FEL BHL 999 FSL, 720 FEL PB 10105, PBTVD 10096

		I		RTMEN	IT OF N	OF UT IATURA , GAS	L RES						(h	nighlight	D REPORT [changes) ESIGNATION AN		EN 1000011	RM 8
WEL	LCO	MPI F1	TION	ORI	RECO	OMPI	FTI	ON R	FPOI	RT AN	DIOG		6.	N 5050	, ALLOTTEE OR	TRIBE NA	ME	
1a. TYPE OF WELI					GAS WELL		DRY			HER	D LOG		7.	UNIT or C	A AGREEMENT	NAME		
b. TYPE OF WOR	v.	V	VELL LE		WELL L				011				-					
WELL	HORIZ. L		EEP-]	RE- ENTRY		DIFF. RESVR.		ОТІ	HER			8.		ME and NUMBER n 4-19C5	k.		
2. NAME OF OPER EP Energ	The second secon	Compar	ıy, L.F	٠.									9.	43013	351466			
3. ADDRESS OF O		eet c	лту Но	uston		STATE	TX	ZIP 77	002		E NUMBER:	3587	10	FIELD AN	D POOL, OR WIL	DCAT		
4. LOCATION OF V	The Carlot Cont. of Many Cont. Cont. Co.		S EEI	1777		lenellelli							11.	QTR/QTI MERIDIA	R, SECTION, TO	MNSHIP, F	RANGE,	
													S	ESE	19 3S	5W	U	
AT TOP PRODU	ICING INTER	RVAL REPO	RTED BE	LOW: 7	707 FS	SL & 78	36 FE	L										
AT TOTAL DEP	гн: 707	FSL &	786 F	EL										COUNTY Duche		13. STA		TAH
14. DATE SPUDDE 10/10/2012	4. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: 10/10/2012 12/13/2012 16. DATE COMPLETED: ABANDONED READY TO PRODUC									PRODUC	E 🗸		EVATIONS (DF, F	KB, RT, G	L):			
18. TOTAL DEPTH	0.1000	0,200			BACK T.				20. IF	MULTIPLE C	OMPLETION	IS, HOW N	MANY? *	21. DE	PTH BRIDGE	MD		
22. TYPE ELECTRI	TVD 1					TVD			T.					Р	LUG SET:	TVD		
24. CASSING AND A	INC. DECO									WAS DST	L CORED? RUN? DNAL SURVE	Y?	NO	Z	YES (S	ubmit anal ubmit repo ubmit copy	ort)	
24. CASING AND L	INER RECO	ки (кероп	an string	s set in w	/eii)				CTACE	251451455	OFMENT	D/DE 0	011					
HOLE SIZE	SIZE/GI	RADE	WEIGHT	(#/ft.)	TOP	(MD)	вотто	OM (MD)		CEMENTER EPTH	NO. OF S			JRRY ME (BBL)	CEMENT TOP	** AM0	DUNT PU	ULLED
17-1/2	13-3/8	J55	54.	5#	(0	8	03							0			
12-1/4	9-5/8	N80L	40)	-	700			35/65 / P	1,525	2,	872	0			
8-3/4	5-1/2	P110	29)#	()	10	,200			Premium	1,164	2,2	241	4437	_		
									_							+		
-															707			
25. TUBING RECOI	RD.												_					
SIZE	DEPTH	SET (MD)	PACK	ER SET (I	MD)	SIZE		DEPTH	SET (MD)	PACKE	R SET (MD)	1	SIZE	ı	DEPTH SET (MD)	PACK	ER SET	(MD)
2-7/8	8,	090	8	3,090											70 2			
26. PRODUCING IN	TERVALS									27. PERFO	RATION REG	CORD *	See	attach	ment for a	ddition	al rec	ords
FORMATION	NAME	TOP	(MD)	_	OM (MD)	TOP (вотто	M (TVD)	INTERVA	L (Top/Bot -	MD)	SIZE	NO. HO	LES PERF	ORATION	STATUS	S
(A) Wasatch		8,1	158	10,	,088	8,1	50	10,	079	9,845	10,	880,	.43	24	Open 🗸	Squee:	zed]
(B)										9,575	9,	829	.43	24	Open 🗸	Squee	zed]
(C)										9,325	9,	553	.43	24	Open 🗸	Squee	zed _]
(D)										9,049	9,	302	.43	24	Open 🗸	Squee	zed]
28. ACID, FRACTUI	RE, TREATM	IENT, CEME	NT SQU	EEZE, ETC	c. * S	ee atta	achme	ent for	additic	nal reco	ords							
DEPTH	NTERVAL								AM	T DNA TNUC	YPE OF MAT	ΓERIAL						
9,845 - 10,0	88		5,00	0 glns	acid,	3,000#	100	mesh,	115,0	01# 20/4	40 temp	ered L	.C					
9,575 - 9,829	9		5,00	0 glns	acid,	3,000#	<i>†</i> 100	mesh,	120,0	00# 20/4	40 temp	ered L	.C					
9,325 - 9,55	3		5,00	0 glns	acid,	3,000#	100	mesh,	115,0	00# 20/4	10 tempe	ered L	С					
29. ENCLOSED AT	TACHMENTS	S:	*NOT	ΓE - lo	gs sub	mitted	direc	tly to l	JDOG	M by ve	ndor				30. W	ELL STAT	US:	
		HANICAL LO	GS					GEOLOGI CORE AN	C REPOR	г 🔲 і	DST REPOR			TIONAL S		Pro	od	

(CONTINUED ON BACK)

(5/2000)

31. INITIAL PRODUCTION INTERVAL A (As shown in item #26) DATE FIRST PRODUCED: TEST DATE: HOURS TESTED TEST PRODUCTION OIL - BBL GAS - MCF WATER - BBL: 1/11/2013 RATES: 1/12/2013 72 111 328 287 CHOKE SIZE: TBG. PRESS CSG. PRESS API GRAVITY BTU - GAS GAS/OIL RATIO 24 HR PRODUCTION OIL - BBL: GAS - MCF: WATER - BBL: 14/64 1,050 42.00 1,450 RATES: 2,955 INTERVAL B (As shown in item #26) DATE FIRST PRODUCED: TEST DATE: HOURS TESTED: TEST PRODUCTION OIL - BBL: GAS - MCF: WATER - BBL: RATES TBG. PRESS. CHOKE SIZE: GAS/OIL RATIO CSG. PRESS. API GRAVITY BTU - GAS 24 HR PRODUCTION OIL - BBL: GAS - MCF: WATER - BBI RATES: INTERVAL C (As shown in item #26) DATE FIRST PRODUCED: TEST DATE: HOURS TESTED: TEST PRODUCTION OIL - BBL: GAS - MCF: WATER - BBL: RATES: CHOKE SIZE: TRG PRESS CSG. PRESS. API GRAVITY BTU - GAS GAS/OIL RATIO 24 HR PRODUCTION OIL - BBL: GAS - MCF WATER - BBL RATES: INTERVAL D (As shown in item #26) DATE FIRST PRODUCED: TEST DATE: HOURS TESTED: TEST PRODUCTION OIL - BBL: GAS - MCF: WATER - BBL: RATES: CHOKE SIZE: TBG. PRESS. CSG. PRESS **API GRAVITY** BTU - GAS GAS/OIL RATIO 24 HR PRODUCTION OIL - BBL: GAS - MCF WATER - BBL INTERVAL STATUS: RATES: 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.) Sold 33. SUMMARY OF POROUS ZONES (Include Aquifers): 34. FORMATION (Log) MARKERS: Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries Bottom Formation Top (Measured Depth) Descriptions, Contents, etc. (MD) (MD) Name Wasatch Lower Green River Middle Green River Upper Green River

35. ADDITIONAL REMARKS (Include plugging procedure)

36. Thereby certify that the foregoing and attached information is complete and correct as determined from	om all available records.
NAME (PLEASE PRINT) Lisa Morales	TITLE Regulatory Analyst II
My My M	
SIGNATURE / SUCTION (MC)	DATE 5/2/2013

This report must be submitted within 30 days of

- · completing or plugging a new well
- · drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

Send to: Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

PROD. METHOD:

tubing

INTERVAL STATUS:

PROD. METHOD:

INTERVAL STATUS:

PROD. METHOD:

INTERVAL STATUS:

PROD. METHOD:

8,158

6,335

5,113

3,478

^{*} ITEM 20: Show the number of completions if production is measured separately from two or more formations.

^{**} ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

EP Energy E&P Company, L.P. Allison 4-19C5 API No. 43-013-51466 Page 2

No. 27 - PERFORATION RECORD										
INTERVAL (Γop/Bot - MD)	SIZE	NO. HOLES	PE	RFC	PRATION STATUS				
8,790	9,020	0.43	24	Open	Х	Squeezed				
8,580	8,773	0.43	24	Open	Х	Squeezed				
8,369	8,560	0.43	24	Open	Х	Squeezed				
8,158	8,344	0.43	24	Open	X	Squeezed				

No. 28 - ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.									
DEPTH I	NTERVAL	AMOUNT AND TYPE OF MATERIAL							
9,049	9,302	5,000 glns acid; 3,000# 100 mesh; 123,000# 20/40 tempered lc							
8,790	9,020	5,000 glns acid; 3,000# 100 mesh; 120,000# 20/40 tempered lc							
8,580	8,773	5,000 glns acid; 4,000# 100 mesh; 110,000# 20/40 tempered lc							
8,369	8,560	5,000 glns acid; 3,000# 100 mesh; 110,000# 20/40 premium sand							
8,158	8,344	5,000 glns acid; 3,000# 100 mesh; 110,000# 20/40 premium sand							

API Well Number: 43013514660000

CENTRAL DIVISION

ALLISON 4-19C5 ALLISON 4-19C5 ALLISON 4-19C5

Deviation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner (s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	ALLISON 4-19C5	Wellbore No.	ОН					
Wellbore Legal	ALLISON 4-19C5	Common	ALLISON 4-19C5					
Name		Wellbore Name						
Project	ALTAMONT FIELD	Site	ALLISON 4-19C5					
Vertical Section	0.00 (°)	North Reference	True					
Azimuth								
Origin N/S	0.0 (ft)	Origin E/W	0.0 (ft)					
Spud Date/Time	11/25/2012	UWI	ALLISON 4-19C5					
Active Datum	KB @5,974.0ft (above Mean Sea Level)							

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	PROPETRO SERVICES INC
Started	10/15/2012	Ended	10/17/2012
Tool Name	MSS	Engineer	WAYNE MOORE

2.1.1 Tie On Point

MD	Inc	Azi	TVD	N/S	E/W
(ft) (°)		(°)	(ft)	(ft)	(ft)
0.0	0.00	0.00	0.0	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD	Inc	Azi	TVD	N/S	E/W	V. Sec	DLeg	Build	Turn	TFace
		(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)
10/15/2012	Tie On	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/15/2012	NORMAL	300.0	0.66	25.55	300.0	1.56	0.75	1.56	0.22	0.22	0.00	25.55
	NORMAL	550.0	0.46	64.84	550.0	3.28	2.27	3.28	0.17	-0.08	15.72	136.22
	NORMAL	800.0	0.39	45.87	800.0	4.30	3.79	4.30	0.06	-0.03	-7.59	-125.72

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	VAUGHN ENERGY SERVICES LLC (GYRO TECHNOLOGIES INC)
Started	12/1/2012	Ended	
Tool Name	GYRO	Engineer	El Paso

2.2.1 Tie On Point

MD	Inc	Azi	TVD	N/S	E/W
(ft)	(°)	(°)	(ft)	(ft)	(ft)
0.0	0.00	0.00	0.0	0.00	0.00

RECEIVED: May. 02, 2013

2.2.2 Survey Stations

Date	Туре	MD	Inc	Azi	TVD	N/S	E/W	V. Sec	DLeg	Build	Turn	TFace
		(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)
12/1/2012	Tie On	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/2012	NORMAL	200.0	0.32	168.10	200.0	-0.54	0.11	-0.54	0.16	0.16	0.00	168.10
	NORMAL	400.0	0.42	157.40	400.0	-1.76	0.51	-1.76	0.06	0.05	-5.35	-38.18
	NORMAL	600.0	0.09	144.84	600.0	-2.56	0.88	-2.56	0.17	-0.17	-6.28	-176.65
	NORMAL	800.0	0.17	178.24	800.0	-2.99	0.98	-2.99	0.05	0.04	16.70	61.23
	NORMAL	1,000.0	0.20	206.73	1,000.0	-3.59	0.84	-3.59	0.05	0.01	14.24	88.00
	NORMAL	1,200.0	0.99	228.10	1,200.0	-5.05	-0.60	-5.05	0.41	0.40	10.69	26.42
	NORMAL	1,400.0	1.94	220.10	1,399.9	-8.80	-4.08	-8.80	0.49	0.48	-4.00	-16.18
	NORMAL	1,600.0	2.03	220.25	1,599.8	-14.10	-8.55	-14.10	0.05	0.05	0.07	3.28
	NORMAL	1,800.0	2.47	226.09	1,799.6	-19.80	-13.95	-19.80	0.24	0.22	2.92	30.89
	NORMAL	2,000.0	2.92	224.11	1,999.4	-26.44	-20.59	-26.44	0.23	0.23	-0.99	-12.52
	NORMAL	2,200.0	3.66	222.74	2,199.1	-34.79	-28.47	-34.79	0.37	0.37	-0.69	-6.77
	NORMAL	2,400.0	4.10	216.36	2,398.6	-45.23	-37.04	-45.23	0.31	0.22	-3.19	-47.72
	NORMAL	2,600.0	4.87	213.64	2,598.0	-58.06	-45.99	-58.06	0.40	0.39	-1.36	-16.71
	NORMAL	2,800.0	5.68	210.66	2,797.2	-73.64	-55.74	-73.64	0.42	0.40	-1.49	-20.34
	NORMAL	3,000.0	5.50	209.03	2,996.2	-90.52	-65.43	-90.52	0.12	-0.09	-0.81	-139.42
	NORMAL	3,200.0	4.85	207.54	3,195.4	-106.38	-73.98	-106.38	0.33	-0.32	-0.74	-169.04
	NORMAL	3,400.0	4.60	207.46	3,394.7	-120.99	-81.59	-120.99	0.13	-0.12	-0.04	-178.53
	NORMAL	3,600.0	4.31	208.66	3,594.1	-134.69	-88.88	-134.69	0.15	-0.15	0.60	162.94
	NORMAL	3,650.0	4.45	208.21	3,644.0	-138.04	-90.70	-138.04	0.30	0.29	-0.90	-13.58

2.3 Survey Name: Survey #3

Survey Name	Survey #3	Company	RYAN ENERGY TECHNOLOGIES
Started	12/9/2012	Ended	
Tool Name	EM	Engineer	El Paso

2.3.1 Tie On Point

MD	Inc	Azi	TVD	N/S	E/W
(ft)	(°)	(°)	(ft)	(ft)	(ft)
3,650.0	4.45	208.21	3,644.0	-138.04	-90.70

2.3.2 Survey Stations

Date	Туре	MD	Inc	Azi	TVD	N/S	E/W	V. Sec	DLeg	Build	Turn	TFace
		(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)
12/9/2012	Tie On	3,650.0	4.45	208.21	3,644.0	-138.04	-90.70	-138.04	0.00	0.00	0.00	0.00
12/9/2012	NORMAL	3,749.0	4.30	205.70	3,742.7	-144.77	-94.12	-144.77	0.25	-0.15	-2.54	-129.31
	NORMAL	3,780.0	4.10	207.70	3,773.6	-146.80	-95.14	-146.80	0.80	-0.65	6.45	144.78
	NORMAL	3,873.0	3.78	212.66	3,866.4	-152.32	-98.34	-152.32	0.50	-0.34	5.33	135.65
	NORMAL	3,966.0	3.12	217.37	3,959.2	-156.92	-101.53	-156.92	0.77	-0.71	5.06	159.10
	NORMAL	4,059.0	2.29	217.54	4,052.1	-160.40	-104.20	-160.40	0.89	-0.89	0.18	179.53
	NORMAL	4,152.0	1.71	243.25	4,145.1	-162.50	-106.57	-162.50	1.13	-0.62	27.65	135.28
	NORMAL	4,245.0	0.79	244.44	4,238.0	-163.40	-108.39	-163.40	0.99	-0.99	1.28	178.98
	NORMAL	4,338.0	1.19	225.54	4,331.0	-164.35	-109.66	-164.35	0.55	0.43	-20.32	-48.93
	NORMAL	4,432.0	1.71	221.94	4,425.0	-166.08	-111.29	-166.08	0.56	0.55	-3.83	-11.74
	NORMAL	4,525.0	1.32	236.66	4,518.0	-167.70	-113.11	-167.70	0.59	-0.42	15.83	142.26
	NORMAL	4,618.0	1.19	235.25	4,610.9	-168.84	-114.80	-168.84	0.14	-0.14	-1.52	-167.34
	NORMAL	4,711.0	1.71	262.54	4,703.9	-169.57	-116.97	-169.57	0.91	0.56	29.34	67.19
	NORMAL	4,803.0	1.49	262.06	4,795.9	-169.91	-119.52	-169.91	0.24	-0.24	-0.52	-176.75
	NORMAL	4,897.0	1.32	277.66	4,889.8	-169.94	-121.80	-169.94	0.44	-0.18	16.60	121.63
	NORMAL	4,990.0	1.41	298.53	4,982.8	-169.25	-123.87	-169.25	0.54	0.10	22.44	90.28
	NORMAL	5,083.0	1.32	262.05	5,075.8	-168.85	-125.93	-168.85	0.92	-0.10	-39.23	-113.95
	NORMAL	5,176.0	1.71	274.54	5,168.8	-168.89	-128.38	-168.89	0.55	0.42	13.43	46.61
	NORMAL	5,269.0	1.58	287.63	5,261.7	-168.39	-130.98	-168.39	0.43	-0.14	14.08	115.55

RECEIVED: May. 02, 2013

2.3.2 Survey Stations (Continued)

Date	Туре	MD	Inc	Azi	TVD	N/S	E/W	V. Sec	DLeg	Build	Turn	TFace
		(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)
12/9/2012	NORMAL	5,362.0	1.58	272.03	5,354.7	-167.96	-133.49	-167.96	0.46	0.00	-16.77	-97.80
	NORMAL	5,455.0	1.80	274.76	5,447.7	-167.79	-136.22	-167.79	0.25	0.24	2.94	21.47
	NORMAL	5,548.0	1.80	255.07	5,540.6	-168.05	-139.09	-168.05	0.66	0.00	-21.17	-99.84
	NORMAL	5,641.0	1.71	253.84	5,633.6	-168.81	-141.84	-168.81	0.10	-0.10	-1.32	-157.90
	NORMAL	5,734.0	1.41	265.35	5,726.5	-169.29	-144.31	-169.29	0.46	-0.32	12.38	139.41
	NORMAL	5,826.0	1.41	283.46	5,818.5	-169.12	-146.54	-169.12	0.48	0.00	19.68	99.05
	NORMAL	5,919.0	1.71	250.15	5,911.5	-169.32	-148.96	-169.32	1.01	0.32	-35.82	-88.83
	NORMAL	6,012.0	2.42	262.06	6,004.4	-170.06	-152.21	-170.06	0.89	0.76	12.81	37.19
	NORMAL	6,105.0	2.29	267.77	6,097.3	-170.41	-156.01	-170.41	0.29	-0.14	6.14	121.82
	NORMAL	6,198.0	2.50	255.86	6,190.2	-170.97	-159.83	-170.97	0.58	0.23	-12.81	-73.15
	NORMAL	6,291.0	2.02	228.97	6,283.2	-172.55	-163.03	-172.55	1.24	-0.52	-28.91	-127.39
	NORMAL	6,385.0	1.80	216.66	6,377.1	-174.82	-165.16	-174.82	0.49	-0.23	-13.10	-124.26
	NORMAL	6,478.0	1.41	208.84	6,470.1	-176.99	-166.59	-176.99	0.48	-0.42	-8.41	-154.55
	NORMAL	6,571.0	1.58	210.86	6,563.1	-179.09	-167.80	-179.09	0.19	0.18	2.17	18.24
	NORMAL	6,664.0	0.79	208.36	6,656.0	-180.76	-168.76	-180.76	0.85	-0.85	-2.69	-177.50
	NORMAL	6,757.0	0.88	208.27	6,749.0	-181.95	-169.40	-181.95	0.10	0.10	-0.10	-0.88
	NORMAL	6,850.0	1.10	235.25	6,842.0	-183.09	-170.48	-183.09	0.55	0.24	29.01	78.63
	NORMAL	6,943.0	1.19	228.44	6,935.0	-184.24	-171.93	-184.24	0.18	0.10	-7.32	-59.96
	NORMAL	7,037.0	0.48	230.15	7,029.0	-185.14	-172.96	-185.14	0.76	-0.76	1.82	178.84
	NORMAL	7,130.0	1.32	221.14	7,122.0	-186.20	-173.97	-186.20	0.91	0.90	-9.69	-14.09
	NORMAL	7,223.0	0.70	248.17	7,215.0	-187.21	-175.20	-187.21	0.82	-0.67	29.06	155.45
	NORMAL	7,316.0	0.22	287.06	7,308.0	-187.37	-175.90	-187.37	0.59	-0.52	41.82	165.36
	NORMAL	7,409.0	0.62	219.43	7,401.0	-187.71	-176.39	-187.71	0.62	0.43	-72.72	-88.40
	NORMAL	7,502.0	0.48	192.14	7,494.0	-188.48	-176.79	-188.48	0.32	-0.15	-29.34	-131.31
	NORMAL	7,596.0	0.79	236.97	7,587.9	-189.22	-177.42	-189.22	0.60	0.33	47.69	81.80
	NORMAL	7,689.0	1.80	231.74	7,680.9	-190.47	-179.10	-190.47	1.09	1.09	-5.62	-9.29
	NORMAL	7,782.0	1.80	228.35	7,773.9	-192.35	-181.34	-192.35	0.11	0.00	-3.65	-91.69
	NORMAL	7,875.0	1.58	194.56	7,866.8	-194.56	-182.75	-194.56	1.08	-0.24	-36.33	-118.99
	NORMAL	7,968.0	0.62	156.06	7,959.8	-196.26	-182.87	-196.26	1.25	-1.03	-41.40	-160.58
	NORMAL	8,062.0	0.31	147.23	8,053.8	-196.94	-182.53	-196.94	0.34	-0.33	-9.39	-171.37
	NORMAL	8,155.0	0.48	141.16	8,146.8	-197.45	-182.15	-197.45	0.19	0.18	-6.53	-16.88
	NORMAL	8,248.0	0.31	121.83	8,239.8	-197.89	-181.69	-197.89	0.23	-0.18	-20.78	-151.31
	NORMAL	8,341.0	0.09	304.64	8,332.8	-197.98	-181.53	-197.98	0.43	-0.24	-190.53	-179.37
12/10/2012		8,435.0	0.40	303.76	8,426.8	-197.75	-181.87	-197.75	0.43	0.33	-0.94	-1.14
12/10/2012	NORMAL	8,528.0	0.70	284.95	8,519.8	-197.43	-182.69	-197.43	0.37	0.32	-20.23	-40.68
	NORMAL	8,621.0	1.01	263.55	8,612.8	-197.43	-184.05	-197.43	0.37	0.32	-23.01	-56.88
	NORMAL	8,714.0	1.01	243.64	8,705.8	-197.83	-185.60	-197.83	0.47	0.00	-21.41	-99.95
	NORMAL	8,807.0	0.79	244.04	8,798.8	-197.03	-186.91	-197.63	0.36	-0.24	0.43	178.56
	NORMAL	8,901.0	1.32	227.87	8,892.8	-196.47	-188.30	-190.47	0.24	0.56	-17.20	-37.57
	NORMAL	8,994.0	1.01	177.77	8,985.7	-199.46	-189.06	-199.46	1.10	-0.33	-53.87	-130.94
12/11/2012		9,087.0	1.01	221.85	9,078.7	-201.02	-189.06	-201.02	1.10	0.43	-53.87 47.40	89.82
12/11/2012		· ·			-							
	NORMAL	9,180.0	0.09	166.96	9,171.7	-203.62	-190.54	-203.62	1.46	-1.42	-59.02	-176.90 54.65
	NORMAL	9,273.0	1.58	218.95	9,264.7	-204.68	-191.33	-204.68	1.64	1.60	55.90	
	NORMAL	9,367.0	2.02	193.77	9,358.7	-207.30	-192.53	-207.30	0.95	0.47	-26.79	-73.89

2.4 Survey Name: Survey #4

Survey Name	Survey #4	Company	HALLIBURTON ENERGY SERVICES INC
Started	12/14/2012	Ended	
Tool Name	EFIELD	Engineer	El Paso

2.4.1 Tie On Point

MD	Inc	Azi	TVD	N/S	E/W	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	
3,650.0	4.45	208.21	3,644.0	-138.04	-90.70	

2.4.2 Survey Stations

Date	Type	MD	Inc	Azi	TVD	N/S	E/W	V. Sec	DLeg	Build	Turn	TFace
		(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)
12/14/2012	Tie On	3,650.0	4.45	208.21	3,644.0	-138.04	-90.70	-138.04	0.00	0.00	0.00	0.00
12/14/2012	NORMAL	3,700.0	4.27	251.16	3,693.8	-140.35	-93.38	-140.35	6.39	-0.36	85.90	114.42
	NORMAL	3,750.0	4.19	193.34	3,743.7	-142.73	-95.56	-142.73	8.18	-0.16	-115.64	-119.83
	NORMAL	3,800.0	3.80	192.66	3,793.6	-146.13	-96.35	-146.13	0.79	-0.78	-1.36	-173.41
	NORMAL	3,850.0	3.66	195.92	3,843.5	-149.28	-97.15	-149.28	0.51	-0.28	6.52	125.05
	NORMAL	3,900.0	3.63	200.03	3,893.4	-152.30	-98.13	-152.30	0.53	-0.06	8.22	98.60
	NORMAL	3,950.0	3.03	201.99	3,943.3	-155.01	-99.17	-155.01	1.22	-1.20	3.92	170.23
	NORMAL	4,000.0	2.84	204.88	3,993.3	-157.36	-100.18	-157.36	0.48	-0.38	5.78	143.52
	NORMAL	4,050.0	2.28	203.45	4,043.2	-159.40	-101.10	-159.40	1.13	-1.12	-2.86	-174.21
	NORMAL	4,100.0	2.01	212.21	4,093.2	-161.05	-101.96	-161.05	0.85	-0.54	17.52	133.79
	NORMAL	4,150.0	1.56	215.75	4,143.1	-162.35	-102.83	-162.35	0.93	-0.90	7.08	168.00
	NORMAL	4,200.0	1.35	218.73	4,193.1	-163.36	-103.59	-163.36	0.45	-0.42	5.96	161.67
	NORMAL	4,250.0	1.28	220.29	4,243.1	-164.24	-104.32	-164.24	0.16	-0.14	3.12	153.69
	NORMAL	4,300.0	1.16	218.52	4,293.1	-165.07	-105.00	-165.07	0.25	-0.24	-3.54	-163.45
	NORMAL	4,350.0	1.19	217.57	4,343.1	-165.87	-105.63	-165.87	0.07	0.06	-1.90	-33.47
	NORMAL	4,400.0	1.34	212.46	4,393.1	-166.78	-106.26	-166.78	0.38	0.30	-10.22	-39.52
	NORMAL	4,450.0	1.20	216.49	4,443.1	-167.69	-106.89	-167.69	0.33	-0.28	8.06	149.47
	NORMAL	4,500.0	1.20	204.01	4,493.1	-168.59	-107.41	-168.59	0.52	0.00	-24.96	-96.24
	NORMAL	4,550.0	1.23	215.33	4,543.0	-169.51	-107.93	-169.51	0.48	0.06	22.64	88.56
	NORMAL	4,600.0	1.24	202.42	4,593.0	-170.44	-108.45	-170.44	0.56	0.02	-25.82	-94.40
	NORMAL	4,650.0	1.70	207.80	4,643.0	-171.60	-109.00	-171.60	0.96	0.92	10.76	19.40
	NORMAL	4,700.0	1.46	230.79	4,693.0	-172.66	-109.84	-172.66	1.34	-0.48	45.98	121.97
	NORMAL	4,750.0	1.58	229.57	4,743.0	-173.51	-110.86	-173.51	0.25	0.40	-2.44	-15.70
	NORMAL	4,800.0	1.58	242.58	4,793.0	-174.27	-112.00	-174.27	0.72	0.24	26.02	96.50
	NORMAL	4,850.0	0.87	264.31	4,843.0	-174.63	-112.00	-174.63	1.67	-1.42	43.46	157.35
	NORMAL	4,900.0	1.22	258.98					0.73	0.70	-10.66	-18.20
	NORMAL				4,892.9	-174.77	-113.89	-174.77	0.73		-5.30	
		4,950.0	1.26	256.33	4,942.9	-175.00	-114.94	-175.00		0.08		-56.43
	NORMAL	5,000.0	1.62	267.16	4,992.9	-175.17	-116.18	-175.17	0.90	0.72	21.66	42.58
	NORMAL	5,050.0	1.54	261.69	5,042.9	-175.30	-117.55	-175.30	0.34	-0.16	-10.94	-120.66
	NORMAL	5,100.0	1.19	252.88	5,092.9	-175.55	-118.71	-175.55	0.81	-0.70	-17.62	-153.41
	NORMAL	5,150.0	1.08	247.03	5,142.9	-175.88	-119.64	-175.88	0.32	-0.22	-11.70	-136.41
	NORMAL	5,200.0	1.24	263.10	5,192.9	-176.13	-120.62	-176.13	0.72	0.32	32.14	71.99
	NORMAL	5,250.0	1.31	259.18	5,242.9	-176.30	-121.71	-176.30	0.22	0.14	-7.84	-53.22
	NORMAL	5,300.0	1.41	263.34	5,292.8	-176.48	-122.89	-176.48	0.28	0.20	8.32	46.73
	NORMAL	5,350.0	1.53	271.56	5,342.8	-176.54	-124.16	-176.54	0.48	0.24	16.44	64.51
	NORMAL	5,400.0	1.52	263.73	5,392.8	-176.59	-125.49	-176.59	0.42	-0.02	-15.66	-96.66
	NORMAL	5,450.0	1.58	265.97	5,442.8	-176.71	-126.84	-176.71	0.17	0.12	4.48	46.40
	NORMAL	5,500.0	1.79	264.70	5,492.8	-176.83	-128.30	-176.83	0.43	0.42	-2.54	-10.72
	NORMAL	5,550.0	1.69	246.21	5,542.7	-177.20	-129.76	-177.20	1.14	-0.20	-36.98	-109.25
	NORMAL	5,600.0	1.66	242.07	5,592.7	-177.84	-131.07	-177.84	0.25	-0.06	-8.28	-105.99
	NORMAL	5,650.0	1.70	240.22	5,642.7	-178.55	-132.35	-178.55	0.13	0.08	-3.70	-54.52
	NORMAL	5,700.0	1.54	235.04	5,692.7	-179.30	-133.55	-179.30	0.43	-0.32	-10.36	-140.10
	NORMAL	5,750.0	1.25	237.23	5,742.7	-179.98	-134.56	-179.98	0.59	-0.58	4.38	170.68
	NORMAL	5,800.0	1.42	243.19	5,792.7	-180.55	-135.57	-180.55	0.44	0.34	11.92	42.25
	NORMAL	5,850.0	1.45	251.87	5,842.6	-181.03	-136.72	-181.03	0.44	0.06	17.36	86.50
	NORMAL	5,900.0	1.45	248.17	5,892.6	-181.46	-137.91	-181.46	0.19	0.00	-7.40	-91.85
	NORMAL	5,950.0	1.90	243.00	5,942.6	-182.07	-139.24	-182.07	0.95	0.90	-10.34	-21.16
	NORMAL	6,000.0	1.94	243.22	5,992.6	-182.83	-140.73	-182.83	0.08	0.08	0.44	10.55
	NORMAL	6,050.0	1.72	249.23	6,042.5	-183.48	-142.19	-183.48	0.58	-0.44	12.02	141.88
	NORMAL	6,100.0	2.25	253.08	6,092.5	-184.03	-143.83	-184.03	1.09	1.06	7.70	16.05
	NORMAL	6,150.0	2.27	252.52	6,142.5	-184.61	-145.71	-184.61	0.06	0.04	-1.12	-48.11
	NORMAL	6,200.0	2.35	243.38	6,192.4	-185.37	-147.57	-185.37	0.75	0.16	-18.28	-82.34
	NORMAL	6,250.0	2.22	234.36	6,242.4	-186.39	-149.28	-186.39	0.76	-0.26	-18.04	-114.34
	NORMAL	6,300.0	1.88	218.95	6,292.4	-187.60	-150.58	-187.60	1.29	-0.68	-30.82	-129.21
	NORMAL	6,350.0	1.68	209.58	6,342.3	-188.87	-151.46	-188.87	0.70	-0.40	-18.74	-129.12
		6,400.0	1.72	203.07	6,392.3	-190.20	-152.11	-190.20	0.39	0.08	-13.02	-81.56

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2.4.2 Survey Stations (Continued)

Date	Туре	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
12/14/2012	NORMAL	6,450.0	1.34	191.99	6,442.3	-191.46	-152.53	-191.46	0.96	-0.76	-22.16	-147.55
	NORMAL	6,500.0	1.55	190.02	6,492.3	-192.70	-152.77	-192.70	0.43	0.42	-3.94	-14.30
	NORMAL	6,550.0	1.51	188.59	6,542.3	-194.02	-152.98	-194.02	0.11	-0.08	-2.86	-137.05
	NORMAL	6,600.0	1.54	197.47	6,592.3	-195.31	-153.28	-195.31	0.48	0.06	17.76	87.22
	NORMAL	6,650.0	1.06	184.40	6,642.2	-196.41	-153.52	-196.41	1.12	-0.96	-26.14	-154.72
	NORMAL	6,700.0	0.94	176.80	6,692.2	-197.28	-153.53	-197.28	0.36	-0.24	-15.20	-135.89
	NORMAL	6,750.0	0.88	177.24	6,742.2	-198.08	-153.49	-198.08	0.12	-0.12	0.88	173.58
	NORMAL	6,800.0	0.96	177.15	6,792.2	-198.88	-153.45	-198.88	0.16	0.16	-0.18	-1.08
	NORMAL	6,850.0	0.82	194.45	6,842.2	-199.64	-153.52	-199.64	0.60	-0.28	34.60	125.99
	NORMAL	6,900.0	1.05	199.44	6,892.2	-200.42	-153.76	-200.42	0.49	0.46	9.98	22.00
	NORMAL	6,950.0	1.37	208.64	6,942.2	-201.38	-154.20	-201.38	0.75	0.64	18.40	35.92
	NORMAL	7,000.0	1.01	197.55	6,992.2	-202.32	-154.62	-202.32	0.85	-0.72	-22.18	-152.85
	NORMAL	7,050.0	1.01	199.60	7,042.2	-203.16	-154.90	-203.16	0.07	0.00	4.10	91.02
	NORMAL	7,100.0	1.00	199.74	7,092.2	-203.98	-155.20	-203.98	0.02	-0.02	0.28	166.27
	NORMAL	7,150.0	0.76	203.67	7,142.2	-204.70	-155.48	-204.70	0.49	-0.48	7.86	167.84
	NORMAL	7,200.0	1.06	197.68	7,192.2	-205.44	-155.75	-205.44	0.63	0.60	-11.98	-20.60
	NORMAL	7,250.0	0.72	204.13	7,242.2	-206.17	-156.02	-206.17	0.71	-0.68	12.90	166.79
	NORMAL	7,300.0	0.70	195.84	7,292.1	-206.75	-156.23	-206.75	0.21	-0.04	-16.58	-105.14
	NORMAL	7,350.0	0.76	234.08	7,232.1	-207.24	-156.58	-207.24	0.96	0.12	76.48	102.36
	NORMAL	7,400.0	0.63	222.75	7,392.1	-207.63	-157.04	-207.63	0.38	-0.26	-22.66	-138.98
	NORMAL	7,400.0	0.63	187.92	7,392.1	-207.03	-157.04	-207.03	0.36	-0.20	-69.66	-110.36
	NORMAL	7,430.0	0.01	290.45	7,442.1	-208.10	-157.20	-208.10	1.34	-0.04	205.06	164.85
		-										
	NORMAL	7,550.0	0.38	244.77	7,542.1	-208.38	-157.60	-208.38	0.57	0.40	-91.36	-72.54
	NORMAL	7,600.0	0.87	231.65	7,592.1	-208.69	-158.04	-208.69	1.01	0.98	-26.24	-22.91
	NORMAL	7,650.0	1.33	231.44	7,642.1	-209.28	-158.80	-209.28	0.92	0.92	-0.42	-0.61
	NORMAL	7,700.0	1.55	216.28	7,692.1	-210.19	-159.65	-210.19	0.88	0.44	-30.32	-67.72
	NORMAL	7,750.0	1.82	215.95	7,742.1	-211.38	-160.52	-211.38	0.54	0.54	-0.66	-2.22
	NORMAL	7,800.0	1.90	209.08	7,792.1	-212.74	-161.38	-212.74	0.47	0.16	-13.74	-73.72
	NORMAL	7,850.0	1.61	195.08	7,842.0	-214.15	-161.97	-214.15	1.03	-0.58	-28.00	-130.94
	NORMAL	7,900.0	1.34	176.90	7,892.0	-215.41	-162.12	-215.41	1.07	-0.54	-36.36	-128.86
	NORMAL	7,950.0	1.03	158.94	7,942.0	-216.41	-161.93	-216.41	0.96	-0.62	-35.92	-138.60
	NORMAL	8,000.0	0.62	178.00	7,992.0	-217.10	-161.76	-217.10	0.98	-0.82	38.12	155.49
	NORMAL	8,050.0	0.75	123.46	8,042.0	-217.55	-161.47	-217.55	1.28	0.26	-109.08	-106.84
	NORMAL	8,100.0	0.65	113.19	8,092.0	-217.84	-160.94	-217.84	0.32	-0.20	-20.54	-133.62
	NORMAL	8,150.0	0.40	110.06	8,142.0	-218.02	-160.52	-218.02	0.50	-0.50	-6.26	-175.02
	NORMAL	8,200.0	0.74	105.41	8,192.0	-218.16	-160.04	-218.16	0.69	0.68	-9.30	-10.08
	NORMAL	8,250.0	0.64	81.71	8,242.0	-218.21	-159.45	-218.21	0.60	-0.20	-47.40	-120.90
	NORMAL	8,300.0	0.53	67.54	8,292.0	-218.08	-158.96	-218.08	0.36	-0.22	-28.34	-134.19
	NORMAL	8,350.0	0.43	61.62	8,342.0	-217.90	-158.58	-217.90	0.22	-0.20	-11.84	-156.56
	NORMAL	8,400.0	0.34	351.79	8,392.0	-217.67	-158.44	-217.67	0.89	-0.18	-139.66	-134.42
	NORMAL	8,450.0	0.47	292.28	8,442.0	-217.44	-158.65	-217.44	0.84	0.26	-119.02	-104.07
	NORMAL	8,500.0	0.68	286.28	8,492.0	-217.28	-159.13	-217.28	0.44	0.42	-12.00	-19.01
	NORMAL	8,550.0	0.78	266.82	8,542.0	-217.22	-159.75	-217.22	0.53	0.20	-38.92	-77.95
	NORMAL	8,600.0	0.81	257.70	8,592.0	-217.31	-160.44	-217.31	0.26	0.06	-18.24	-81.25
	NORMAL	8,650.0	0.92	249.42	8,642.0	-217.53	-161.16	-217.53	0.33	0.22	-16.56	-52.84
	NORMAL	8,700.0	1.14	237.71	8,692.0	-217.93	-161.95	-217.93	0.61	0.44	-23.42	-49.69
	NORMAL	8,750.0	1.04	217.28	8,742.0	-218.56	-162.65	-218.56	0.80	-0.20	-40.86	-114.50
	NORMAL	8,800.0	1.07	216.06	8,791.9	-219.30	-163.20	-219.30	0.07	0.06	-2.44	-37.44
	NORMAL	8,850.0	1.22	220.88	8,841.9	-220.08	-163.82	-220.08	0.36	0.30	9.64	35.13
	NORMAL	8,900.0	1.24	210.33	8,891.9	-220.95	-164.44	-220.95	0.45	0.04	-21.10	-90.24
	NORMAL	8,950.0	1.32	206.87	8,941.9	-221.93	-164.98	-221.93	0.22	0.16	-6.92	-45.75
	NORMAL	9,000.0	1.33	205.27	8,991.9	-222.97	-165.48	-222.97	0.08	0.02	-3.20	-75.68
	NORMAL	9,050.0	1.37	197.69	9,041.9	-224.06	-165.91	-224.06	0.37	0.08	-15.16	-81.18
	NORMAL	9,100.0	1.45	197.29	9,091.9	-225.23	-166.28	-225.23	0.16	0.16	-0.80	-7.21
	NORMAL	9,150.0	1.64	201.21	9,141.8	-226.51	-166.73	-226.51	0.43	0.38	7.84	31.05
	NORMAL	9,200.0	1.58	201.70	9,191.8	-227.81	-167.24	-227.81	0.12	-0.12	0.98	167.32

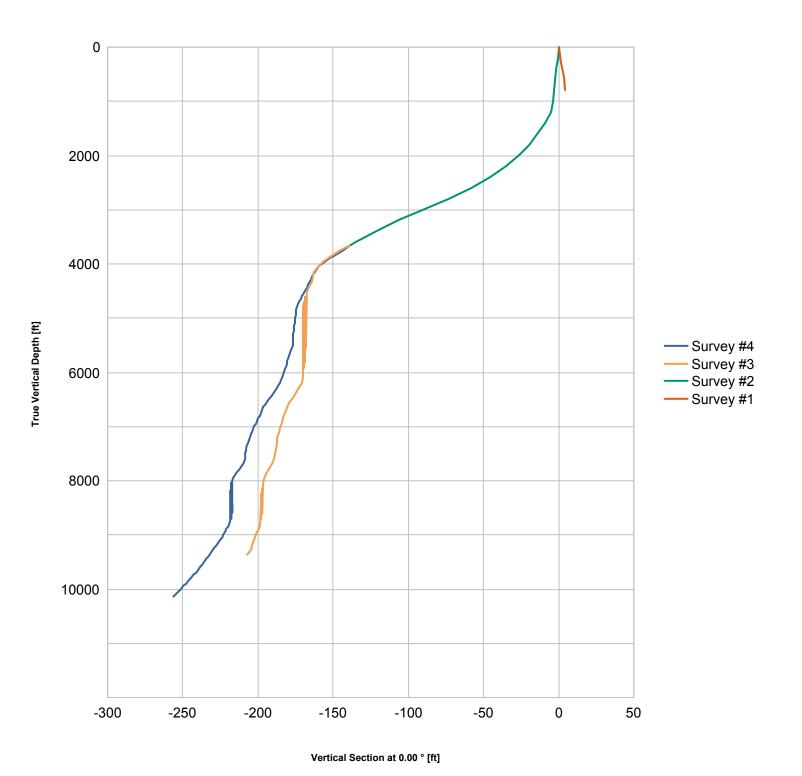
RECEIVED: May. 02, 2013

2.4.2 Survey Stations (Continued)

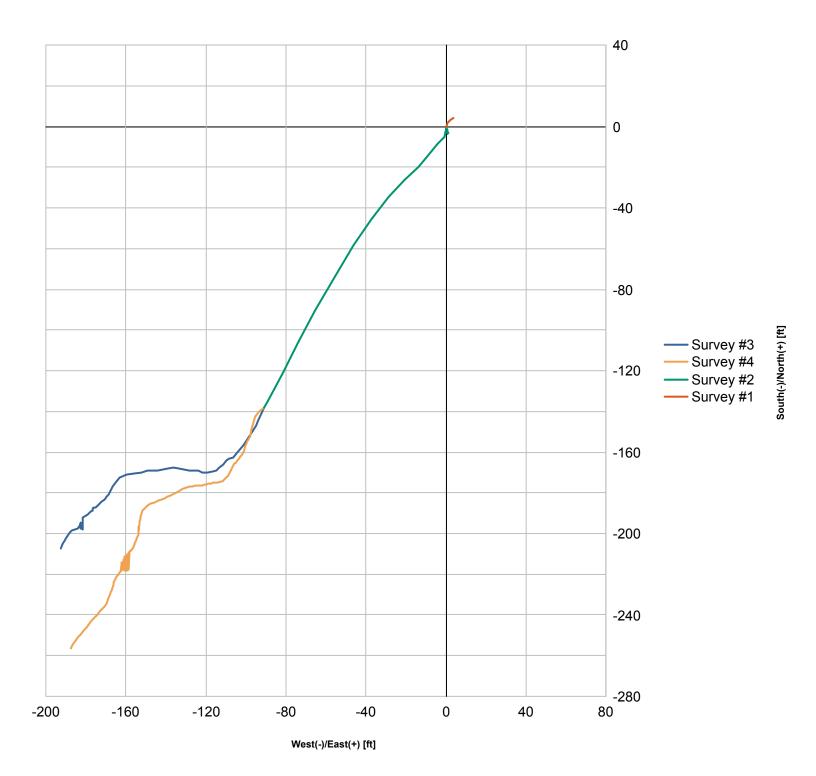
Date	Туре	MD	Inc	Azi	TVD	N/S	E/W	V. Sec	DLeg	Build	Turn	TFace
		(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)
12/14/2012	NORMAL	9,250.0	1.54	196.77	9,241.8	-229.10	-167.69	-229.10	0.28	-0.08	-9.86	-109.05
	NORMAL	9,300.0	1.32	200.61	9,291.8	-230.28	-168.09	-230.28	0.48	-0.44	7.68	158.37
	NORMAL	9,350.0	1.74	198.87	9,341.8	-231.54	-168.54	-231.54	0.85	0.84	-3.48	-7.18
	NORMAL	9,400.0	1.88	202.54	9,391.8	-233.01	-169.10	-233.01	0.36	0.28	7.34	41.47
	NORMAL	9,450.0	1.63	214.12	9,441.7	-234.36	-169.81	-234.36	0.87	-0.50	23.16	130.88
	NORMAL	9,500.0	1.92	214.41	9,491.7	-235.64	-170.68	-235.64	0.58	0.58	0.58	1.92
	NORMAL	9,550.0	2.06	218.11	9,541.7	-237.04	-171.71	-237.04	0.38	0.28	7.40	44.40
	NORMAL	9,600.0	2.02	224.07	9,591.6	-238.38	-172.88	-238.38	0.43	-0.08	11.92	103.65
	NORMAL	9,650.0	2.43	222.52	9,641.6	-239.79	-174.21	-239.79	0.83	0.82	-3.10	-9.12
	NORMAL	9,700.0	2.33	221.11	9,691.6	-241.34	-175.59	-241.34	0.23	-0.20	-2.82	-150.35
	NORMAL	9,750.0	2.44	222.06	9,741.5	-242.89	-176.97	-242.89	0.23	0.22	1.90	20.24
	NORMAL	9,800.0	2.32	221.49	9,791.5	-244.44	-178.36	-244.44	0.24	-0.24	-1.14	-169.13
	NORMAL	9,850.0	2.40	219.71	9,841.4	-246.01	-179.70	-246.01	0.22	0.16	-3.56	-43.39
	NORMAL	9,900.0	2.51	219.95	9,891.4	-247.65	-181.07	-247.65	0.22	0.22	0.48	5.46
	NORMAL	9,950.0	2.62	219.38	9,941.3	-249.37	-182.50	-249.37	0.23	0.22	-1.14	-13.34
	NORMAL	10,000.0	2.44	218.22	9,991.3	-251.09	-183.88	-251.09	0.37	-0.36	-2.32	-164.70
	NORMAL	10,050.0	2.36	216.87	10,041.2	-252.75	-185.16	-252.75	0.20	-0.16	-2.70	-145.43
	NORMAL	10,100.0	2.71	211.83	10,091.2	-254.58	-186.40	-254.58	0.83	0.70	-10.08	-35.03
	NORMAL	10,150.0	2.43	215.84	10,141.1	-256.44	-187.64	-256.44	0.67	-0.56	8.02	149.28

3 Charts

3.1 Vertical Section View



3.2 Plan View



CENTRAL DIVISION

Table of Contents

1	General	1
1.1	Customer Information	1
1.2	Well Information	1
2	Survey Name	1
2.1	Survey Name: Survey #1	1
2.1.1	Tie On Point	1
2.1.2	Survey Stations	1
2.2	Survey Name: Survey #2	1
2.2.1	Tie On Point	1
2.2.2	Survey Stations	2
2.3	Survey Name: Survey #3	2
2.3.1	Tie On Point	2
2.3.2	Survey Stations	2
2.4	Survey Name: Survey #4	3
2.4.1	Tie On Point	3
2.4.2	Survey Stations	4
3	Charts	7
3.1	Vertical Section View	7
3.2	Plan View	8

Sundry Number: 42180 API Well Number: 43013514660000

	STATE OF UTAH			FORM 9
	DEPARTMENT OF NATURAL RESOUP DIVISION OF OIL, GAS, AND M		i	5.LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDR	RY NOTICES AND REPORTS	S ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantl reenter plugged wells, or to drill horiz n for such proposals.			7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: ALLISON 4-19C5
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY,	L.P.			9. API NUMBER: 43013514660000
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston,	TX, 77002 713 997		NE NUMBER: Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FSL 0540 FEL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 9 Township: 03.0S Range: 05.0W Me	ridian: \	J	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDIC.	ATE N	ATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
NOTICE OF INTENT Approximate date work will start:	✓ ACIDIZE CHANGE TO PREVIOUS PLANS		LITER CASING	CASING REPAIR CHANGE WELL NAME
9/4/2013	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN OPERATOR CHANGE		RACTURE TREAT	☐ PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION TUBING REPAIR		EIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON ☐ WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF		I TA STATUS EXTENSION	APD EXTENSION
42 DESCRIPE PROPOSED OR	WILDCAT WELL DETERMINATION	0	OTHER	OTHER:
	rforming routine operations with 7500 gals.			
				Date: September 19, 2013
				By: Dork Out
NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUN 713 997-5038	/IBER	TITLE Principal Regulatory Analys	ıt
SIGNATURE N/A			DATE 9/4/2013	

	STATE OF UTAH		FORM 9
[DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ	G	5.LEASE DESIGNATION AND SERIAL NUMBER:
			Fee
	Y NOTICES AND REPORTS ON		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: ALLISON 4-19C5
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY,	LP.		9. API NUMBER: 43013514660000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston,		ONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FSL 0540 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SESE Section: 19	IIP, RANGE, MERIDIAN: 9 Township: 03.0S Range: 05.0W Meridian	: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
✓ SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
12/19/2014	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	☐ WILDCAT WELL DETERMINATION ✓	OTHER	OTHER: Downsize
	completed operations. Clearly show all p and deepened pump. See attac		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 13, 2015
NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analys	t
SIGNATURE N/A		DATE 2/12/2015	

RECEIVED: Feb. 12, 2015

CENTRAL DIVISION

ALTAMONT FIELD ALLISON 4-19C5 ALLISON 4-19C5 WORKOVER LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner (s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

CENTRAL DIVISION

1 General

Customer Information 1.1

Company	CENTRAL DIVISION
Representative	
Address	

1.2 **Well Information**

Well	ALLISON 4-19C5						
Project	ALTAMONT FIELD	Site	ALLISON 4-19C5				
Rig Name/No.	BASIC/1544	Event	WORKOVER LAND				
Start date	12/15/2014	End date	12/20/2014				
Spud Date/Time	11/25/2012	UWI	ALLISON 4-19C5				
Active datum	KB @5,974.0ft (above Mean Sea Level)	·					
Afe	163926/52609 / ALLISON 4-19C5						
No./Description							

2 Summary

2.1 **Operation Summary**

Date		Fime ort-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD from (ft)	Operation
12/16/2014	6:00	7:30	1.50	WOR	28		Р		TRAVEL TO LOCATION, HSM, RIG MOVE
	7:30	11:00	3.50	MIRU	01		Р		RDMO 3-22C6 MOVE TO LOCATION, SLIDE ROTAFLEX BACK, SPOT & RIG UP RIG. HOT OILER PUMP 150 BBLS 2% KCL @ 200 DEG DOWN CSG. X/O TO ROD EQUIP
	11:00	13:30	2.50	WOR	18		Р		L/D POLISH ROD & 2' SUB, ATTEMPT TO UNSEAT PUMP, UNABLE TO WORK PUMP OFF SEAT, BACK OFF RODS
	13:30	14:30	1.00	WOR	39		Р		POOH W/ 84-1" EL RODS, 63 SLK, 21 W/G (L/D 6 SLK WORN BOXES & SHOULDERS 3-7/8" EL RODS W/G. 2275' X/O TO TBG EQUIP,
	14:30	16:00	1.50	WOR	16		P		REMOVE 60' CAPSTRING ASSEMBLY, N/D 10K B-FLANGE, UNLAND TBG, WHILE ATTEMPTING TO REMOVE B-FLANGE, THREADS ON TUBING WERE GAULING, ATTEMPT TO RELEASE TAC IN TENSION, NO LUCK, RELANDTBG & N/U B-FLANGE, TBG SHUT IN, CSG TO SALES, SDFN. 2% KCL PUMPED = 200 BBLS DIESEL USED = 72 GAL
									PROPANE USED = 225 GAL
12/17/2014	6:00	7:30	1.50	WOR	28		Р		TRAVEL TO LOCATION, HSM, RELEASEING TAC 0 PSI SITP, 200# FCP, BLEED OFF.
	7:30	9:00	1.50	WOR	16		Р		N/D B-FLANGE, UNSCREW OFF TBG, ONLY BOTTOM THREADS WERE BAD, INSTALL 6'-2 7/8" TBG, HANGER, RELEASE TAC, LAND ON HANGER, N/U BOPS, R/U FLOOR & TBG EQUIP.
	9:00	10:30	1.50	WOR	39		Р		L/D HANGER & SUBS, POOH W/ 68 JTS 2 7/8" N-80 TBG TO RODS. X/O TO RODS
	10:30	12:00	1.50	WOR	39		Р		P/U ON RODS WEIGHING 4K, POOH W/ 102-7/8" EL RODS, X/O TO TBG
	12:00	14:00	2.00	WOR	39		Р		POOH W/ 86 JTS 2 7/8" N-80 TBG, X/O TO RODS
	14:00	15:00	1.00	WOR	39		Р		P/U ON RODS, NO WEIGHT SCREW BACK INTO ROD STRING, BACK OFF RODS, POOH W/ 23- 3/4" EL RODS, X/O TO TBG
	15:00	15:30	0.50	WOR	39		Р		POOH W/ 18 JTS 2 7/8" N-80 TBG, X/O TO RODS

CENTRAL DIVISION

Date		Γime art-End	Duratio n	Phase	Activit	Sub	OP Code	MD from (ft)	Operation
			(hr)						
	15:30	16:30	1.00	WOR	39		Р		BACK OFF RODS, POOH W/ 84-3/4" EL RODS, 9-1 1/2" K-BARS. EOT @ 2550' (LEFT IN HOLE 76 JTS TBG & BHA, 2 KARS & PUMP) TBG SHUT IN, CSG TO SALES, SDFN
									2% KCL PUMPED = 100 BBLS DIESEL USED = 92 GAL PROPANE USED = 100 GAL
12/18/2014	6:00	7:30	1.50	WOR	28		Р		TRAVEL TO LOCATION, HSM, STRIPPING OOH W/ RODS & TBG 0 PSI SITP, 200# FCP, BLEED OFF
	7:30	9:00	1.50	WOR	39		Р		EOT @ 2550', POOH W/ 78 JTS 2 7/8" N-80 TBG, L/D BHA & 2-1 1/2" K-BARS, PUMP. (PUMP STUCK IN 4' SUB ABOVE SEAT NIPPLE)
	9:00	10:30	1.50	WLWORK	32		Р		MIRU DELSCO SLICK LINE UNIT, RIH W/ 1 1/2" SINKER BARS, TAG @ 10106' WLD, BTM PERF @ 10088', POOH R/D SL UNIT
	10:30	16:00	5.50	WOR	39		P		P/U & RIH W/ 2 7/8" BULL PLUG, 2 JTS 2 7/8" N-80 TBG, 3 1/2" PBGA W/ DIP TUBE, 2'-2 7/8" TBG SUB, 2 7/8" SEAT NIPPLE, 4'-2 7/8" TBG SUB, 4 JTS 2 7/8" N-80 TBG, 5 1/2" TAC, 297 JTS 2 7/8" N-80 TBG (TOP 57 JTS NEW), INSTALL 6' TBG SUB & HANGER, SET TAC @ 9675' W/ 25K TENSION, LAND ON HANGER.
									TUBING DETAIL KB = 17.00' STRETCH = 4.50' 299 JTS 2 7/8" N-80 TBG = 9640.55' 5 1/2" TAC = 2.75' 4 JTS 2 7/8" N-80 TBG = 126.96' 6' - 2 7/8" N-80 TBG SUB = 6.20' 2 7/8" SEAT NIPPLE = 1.10' 2' - 2 7/8" TBG SUB = 2.13' 3 1/2" PBGA W/ DIP TUBE = 31.71'
									2 JTS 2 7/8" N-80 TBG = 63.55' 2 7/8" BULL PLUG = .75" EOT @ 9897.20' 5 1/2" TAC @ 9662.05' 2 7/8" SEAT NIPPLE @ 9797.96'
	16:00	17:30	1.50	WOR	16		Р		R/D FLOOR & TBG EQUIP, N/D BOPS, UNLAND TBG, REMOVE HANGER & 6' TBG SUB, INSTALL 10K B-FLANGE, LAND TBG, N/U B-FLANGE, HOOK UP FLOWLINE. INSTALL CAP STRING ASSEMBLY. X/O TO ROD EQUIP. SHUT TBG IN, CSG TO SALES, SDFN 2% KCL PUMPED = 50 BBLS
									DIESEL USED = 92 GAL PROPANE USED= 50 GAL
12/19/2014	7:00	8:30	1.50	WOR	28		Р		TRAVEL TO LOCATION, HSM, P/U RODS 50# SITP & FCP, BLEED OFF CSG HOT OILER FLUSH TBG W/ 60 BBLS 2% KCL @ 200 DEG, SPOT 10 GAL CORROSION INHIBITOR. (NOTE BASIC HAD COMPANY SAFETY MEETING AT 6 AM.)
	8:30	10:00	1.50	WOR	18		Р		PREP RODS, X/O TO ROD EQUIP

CENTRAL DIVISION

Date		ime rt-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD from (ft)	Operation
	10:00	17:30	7.50	WOR	39		P		P/U & PRIME NOW 2 1/2" X 1 1/2" X 38' 2 STAGE HVR PUMP W/ 3' STABILZER SUB, RIH W/ 18-1 1/2" K-BARS (TOP 11 NEW) 146 -3/4" EL RODS W/G (TOP 33 NEW) 132 - 7/8" EL RODS W/G (80 E/G, 8 W/ 6G NEW, 46 W/G TOP 20 NEW) 46 -1" EL RODS E/G (RIH W/ 21 W/G 62 SLK, L/D 62 SLK, P/U 25 NEW W/G) EOR @ 8600' P/U POLISH ROD, SECURE WELL, CSG TO SALES, TBG SHUT IN, SDFN 2% KCL PUMPED = 240 BBLS DIESEL USED = 92 GAL
40/00/0044	0.00	7:30	4.50	WOR	28		Р		PROPANE USED = 250 GAL
12/20/2014	6:00	7:30	1.50	WOR	20		P		TRAVEL TO LOCATION, HSM, R/D RIG 50# SITP, 200# FCP, BLEED OFF
	7:30	9:00	1.50	WOR	39		Р		EOR @ 8600', RIH P/U 45 NEW 1" EL RODS W/G (91 TOTAL) SPACE W/ 1" SUBS = 2-2', 2-4', 1-6' P/U POLISH ROD, HANG OFF
	9:00	10:00	1.00	WOR	23		Р		HOT OILER FILL TBG W/ 40 BBLS 2%, PSI TEST TO 500#, STROKE TEST TO 1000# (GOODTEST 0, PSI TEST CV TO 1000#, PUMP 15 BBLS 2% KCL @ 200 DEG ACROSS FLOWLINE
	10:00	12:00	2.00	RDMO	02		Р		RDMO, SLIDE ROTAFLEX IN, CHECK PUMP, NO TAG GOOD PUMP ACTION, TURN WELL OVER TO OPERATOR. CLEAN LOCATION, MOVE TO 2-33C6. 2% KCL PUMPED = 70 BBLS DIESEL USED 40 GAL PROPANE USED = 25 GAL

CENTRAL DIVISION

Table of Contents

1	General
1.1	Customer Information
1.2	Well Information
2	Summary
2.1	Operation Summary